SCIENCE IN THE BIBLE

DR. A. V. THAMBI

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- Dr. Zacharias Mar Aprem Metropolitan

SCIENCE IN THE BIBLE

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Science in The Bible

By **Dr. A. V. Thambi**

Published by : **Dr. Geevarghese Mar Yulios**
M. J. D. Publishing House, Kunnamkulam

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Dr. A.V.Thambi

A.V. Thambi was born in Pazhanji, Thrissur Dist. in October in 1944, to parents A. I. Varghese (Late) and P. M. Kunhayee(Late) Educated in ICM School Pazhanji (1949-1954) and Govt. H. S. Pazhanji(1954-1960), St. Thomas College Thrissur (B.Sc. Zoology, 1960-64) and Christ College Irinjalakkuda (M.Sc. Zoology, 1964-66). Ph.D. in Zoology (Soil Ecology) from Berhampur University, Orissa. (First Zoology Ph.D. in Berhampur Uty. in 1976), Ph.D. under the guideship of Dr. M. C. Das (Ph.D.Calgary Uty. Canada) who Rtd. as Vice Chancellor of Sambalpur Uty., BCS (Bachelor of Christian Studies), Serampur College Calcutta, in 2011. Discovered and named six new animal species, received post doctoral research grant from UGC. Received Kerala University Merit Scholarship for MSc. Studies. Worked as college teacher in Christ College Irinjalakkuda (1966-1968), different private and Govt. colleges in Orissa (1968-1981) & Mar Thoma College Chungathara (1981-2000). Rtd. as 4th Principal in Mar Thoma College Chungathara (2000). Worked as Ph.D. Guide in Berhampur Uty. Worked as Member of Board of Studies in BU. Received Best College Teacher, Prof. M. M. Gani, Award in Calicut University in 1995. Served as Vice Chairman YMCA, South West India Region(Kerala)., served as president YMCA, Chungathara., YMCA Chairman, Calicut sub region., Member of Youth Training Dept of YMCA, National Council of YMCAs of India, New Delhi. Started YWCA, Chungathara. Served as Member of College Governing council Mar Thoma College Chungathara Serving as Member of College Governing Council of Mar Dionysius College, Pazhanji. Served as President of Kerala Service Pensioners Union, South Unit of Kunnamkulam Block.

Served as Chairman, Nature Edn. Centre, Trissur Dist., World Wide Fund for Nature-India NCI. Serving as secretary, Eco Commission, Diocese Of Kunnamkulam, (Malankara Orthodox Church). Worked as Principal, MGM Public School, Chungathara., Royal Academy Akkikkavu and M J Academy, Perinthalmanna. Worked as member of BLEC (Block Level Expert Committee) and DLEC(District Level Expert Committee) of Janakeeyasutranam programme (Peoples Plan) of Kerala Govt. Nilambur Block and Malappuram District. Worked as a member in the editorial board of different souvenirs and magazines (in different places).

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Son-Sajosh Thambi. A (Manager-Design, Cable & Wireless, Bangalore), Wife - Nita Joby. P, Assistant Professor, Govt. Arts College, Bangalore, Children- Master Joseph Greg Sajosh, Kumari Joanne Mariam Sajosh.

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Catholicate of the East

Baselios Marthoma Paulose II
Catholicos of
The Apostolic Throne of
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And Malankara Metropolitan

Catholicate Palace
Kottayam - 686 038
Kerala, India

30 April 2013

Message

Apostolic Blessings to Dr. A. V. Thambi.

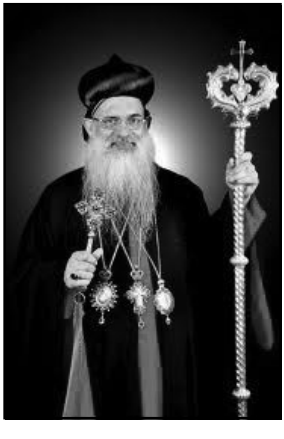
We are much pleased to know that Dr. Thambi is publishing a book 'Science in the Bible.' He is our shool mate and fully known to me. It is believed that Science and Religion are unfriendly to each other. Religion is based on faith and not logic as science. On minute observation of this book we know that both religion and science are compatible.

The hidden scientific ideas in the Bible verses are exposed and analysed in this book. Such books are rare in the book shelves.

The pain taken by the author is hoped to bring a lot of young minds towards God. We hope the author to give birth to novel ideas like this hereafter. We wish him all success. May Lord God Almighty Bless his venture.

With prayers and regards.

Baselios Marthoma Paulose II



THE INDIAN ORTHODOX CHURCH

(The Malankara Orthodox Syrian Church)

Catholicate of the East

DIOCESE OF AHMEDABAD

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Gujarat, India 382 330

Kalpana No.

Message

It is with great pleasure and honor we, the MJD publishers, present the book 'Science in The Bible' authored by Prof(Rt.). Dr. A. V. Thambi, a proud son of Pazhanji, Kunnamkulam.

Prof. Thambi has developed his career in the discipline of Zoology and secured his Bachelor and Master degrees with high distinction. Even though his Ph. D. Thesis is in Soil Ecology, he discovered six new animal species and named them. He has received many fellowships and awards including Post-Doctoral Research Grant from UGC for his contributions in the field of science.

He started his career as a college lecturer in 1966 in Christ College, Irinjalakkuda and continued his professional journey through different academic institutions as Professor of Zoology, Head of the Department, Research guide and retired as Principal from Mar Thoma College Chungathara.

Along with his secular studies, being a member of one of the strongest and ancient religious traditions of the world, he wanted to speculate and correlate whatever he has studied with his own religious beliefs and convictions. What does Science say? Would it go hand in hand or would it differ from the true facts described in the Holy Scriptures? From his early career he was very keen to look into this concern and responded through many of his articles in different science and historical journals and publications. He wanted to answer the query of students and youth, who strongly believe that scientific facts are the realities. The earnest effort to answer them in a scientific and systematic method paved the way of writing this book, namely, "Science in The Bible".

Both Mar Joseph Dionysius I & II were highly progressive towards

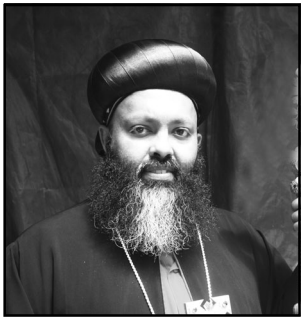
Science and Religion in their respective times and started schools, colleges and other social educative methods to impart knowledge to the community. This is the reason why the MJD publishers are interested to publish this valuable work. We wish and hope that this work will be vast read and used by our youth for clarifying their faith and understandings.

With this note, Mar Joseph Dionysius Publishing House proudly releases this unique work of Prof. Dr. A. V. Thambi.

By His Grace, Dr. Geevarghese Yulios

Metropolitan, Diocese of Ahmedabad

'Gandhi Smriti' +Be with Him and be like Him+
St. Thomas Bishop's House, Ahmedabad
14 March, 2014



Foreword

The exploration of the humankind in unfolding the mystery of the universe is as primeval as the origin of the human culture. Life, with all its beauty and blessings, remains as the most sensitive concern in this exploration. In the course of the human history this quest has resulted in diverse splitting owing to the natural diversities in its backdrop. A conglomeration of fear, devotion, adoration and worship in this pursuit paved way to the formulation of diverse religious traditions.

In a furthermore advanced setting, with the organized emergences of diverse religious traditions, distinctive doctrines and principles have naturally subsisted. In other words, these conceptual disparities on the doctrinal aspects on the origin of life would have probably become strong reasons for the surfacing of varied religious traditions. In recent times greater attempts were made in formulating dialogical language between the diverse religious traditions in order to establish, at least, normative agreements. The role of 'faith' is obviously the common platform for the religious cosmologies. The scientific methodology would certainly require extensive empirical and result-oriented tests while 'faith' works as the conviction of what is intangible. The scientific cosmology, in spite of the strong validations of rationalistic proofs, had been subjected to regular revisions. All these updates cannot be considered as the progressive advancements of understandings as sometimes one new step being found now could be contradictory to what was already perceived. In short, none of the branches of exploration, be it the rationalistic findings of the present times, or the conviction of faith proposed as doctrines by the religious philosophies can be static.

It is in this context that the book "Science in the Bible" authored by Prof. A. V. Thambi, become significant. He meaningfully harmonizes his systematic and scientific academic experiences with simple devotion based on faith. Biblical accounts are not taken in the exclusive context of faith alone but he has considered the historical, social and scientific contexts of the texts. The author's theological formal degree along with his skills as a University science Teacher had certainly helped him in bringing out the scientific standpoints and views one could filter out from the biblical narratives.

He tries to complement the biblical account of creation with Darwin's 'Theory of Evolution', hence highlights the significance of both. It is indeed something novel to see an approach of presenting the personhood of Jesus

Christ in the light of evolution. He argues against the apparent approaches of finding basis for all the scientific truths in Bible, as the purpose of Biblical writing is not to substantiate the scientific truth. At the same time he holds a position against those who argues that it is immature to use the scientific methods in analyzing the Bible.

I am delighted to acknowledge the equanimity of a devotee and a student of science in him, I take this opportunity to congratulate Dr. A. V. Thambi, who is a teacher of mine, for his relentless and devoted efforts in harmonizing science and religion, while presenting the work for your reading and critical analyses.

God bless!

Dr. Zacharias Mar Aprem Metropolitan

Preface

This book is presented in two parts. The first part of this book was my thesis submitted to The Senate of Serampore College, Calcutta in partial fulfilment of the requirement of the Degree of Bachelor of Christian Studies (BCS), 2009. The Senate permitted me to publish the thesis in the form of a book. The title of the thesis was "An Evaluation of The Theory of Evolution in the light of Biblical Understanding of Creation".

The second part of the book is also a similar work but not submitted to obtain any degree. In short, combining both the parts I named the book "Science in the Bible". In this book, I have tried to explain the scientific truths of the origin of the universe, space, time, matter, antimatter, dark matter, dark energy, gravitational force etc. The evolution of organisms, the geological time scale, the origin of man and isolation and speciation etc. are also evaluated in the light of biblical verses. My attempt is to establish that scientific facts are not against the hidden truths of the Bible verses. Wrong interpretations may be pointed out. The present young generation is more attracted towards scientific knowledge only. My attempt is aimed at young readers and they need not discard the Bible truths.

The Bible is written in a period when the scientific knowledge was meagre. The Bible verses throw light to scientific facts. The words of God are not to be changed, even after centuries of its writings. Even many centuries later, the Bible verses would be available to evaluate scientific facts of that time.

I have added my own imagination in certain descriptions and a few verses are used repeatedly for more clarity. The references of the verses are given along with the descriptions, so that the reader need not go to search them in the Bible. This method is accepted for convenience.

There remains for me a pleasant duty of my acknowledgements.

My honour and sincere thanks to H. H. Baseliose Mar Thoma Paulose II, for the valuable "Message" written to this book. His Holiness had blessed me while releasing my book 'Bibilum Sastravum', that I may become the author of many books in future.

I wish to express my gratitude to the Senate of Serampore College, for giving permission to publish my thesis submitted in partial fulfilment of the requirement of the BCS Degree 2009.

His Grace Dr. Zacharias Mar Aprem (former Rev. Fr. Dr. Sabu Kuriakose) was my supervisor during my BCS studies. His Grace has given the

"foreword" to this book. I express my respect and gratitude to His Grace on this occasion.

His grace Dr. Gevergese Mar Yulios, Metropolitan of Malankara Orthodox Church, Ahemadabad Diocese, has given consent to publish this book. I express my gratitude to His Grace, for the help and encouragement.

Prof. Fr. Gabriel CMI, Padmasree Award winner and Rtd. principal of Christ College, Irinjalakkuda, was my teacher and principal, has encouraged me, throughout my career. I express my gratitude for the encouragement.

My friends, Prof. P. C. Sunny, Prof. A. Chandran and Prof. A. O. Verghese have provided me some of the references. I express my sincere thanks to them. Mr. Sajan Vargese and Prof. Chakko Kakkessery have gone through the contents of the script and given necessary suggestions. My thanks are due to them.

It was my wife's and children's privilege to read the manuscripts and give valuable suggestions. Without their interference and encouragements, this would not have been published. I acknowledge Mr. Shebin and Mr. Tiny Simon for their help in the preparation of this book.

My friends and relatives have extended their encouragements and sincere help. I extend my thanks to all of them.

My heart overflows with gratitude to the Almighty for His help in bringing this book to light.

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22nd October 2013

Dedicated to
In memory of my loving eldest sister
A. V. Sosamma

THE CONTENTS

1. INTRODUCTION 16
1.1 General 16
1.2 Definitions of Science, God, Evolution & Creation 16
1.3 Elaboration of the problem 17
2. SCIENTIFIC THEORIES REGARDING THE ORIGIN OF UNIVERSE 19
2.1 'Big Bang' Theory 19
2.2 'Steady state' Theory 19
2.3 'Pulsating Universe' Theory 19
3. EVOLUTION THEORY 21
3.1 Inorganic & Organic Evolution 21
3.2 Theories of Organic Evolution 21
3.3 Organic Evolution and Creation compared 22
4. BIBLICAL EXPLANATION REGARDING THE ORIGIN OF UNIVERSE 24
4.1 Origin of Universe in the first chapter of Genesis 24
4.2 Biblical Theory& Gods unchangeable words 24
5. SCIENTIFIC THEORIES OF THE ORIGIN OF UNIVERSE IN THE LIGHT OF BIBLE VERSES 26
5.1 Creation of light as given in the Bible and its scientific explanation. 27
5.2 Different evolutionary stages of Organisms given in Bible 31
6. CREATION PROGRESS IN BIBLE AND GEOLOGICAL TIME SCALE 34
6.1 An attempt to bring consensus between Creation and Evolution 34
6.2 Geological Time Scale compared with day by day progress of creation 34
6.3 Duration of God's one day and man's one day 36
7. FIRST CREATED MAN ADAM 39
7.1 Creation of Man 39
7.2 Origin of first man - Creation and Evolution compared 43

8. ISOLATION AND SPECIATION 47
8.1 Adam, The first individual of Homo sapiens 47
8.2 Adam's descendants 48
8.3 Jesus Christ in the light of Evolution 50
9. CONCLUSION 52
BIBLIOGRAPHY 56

PART ONE

An Evaluation of the Theory of Evolution in the light of Biblical understanding of Creation

CHAPTER - 1

INTRODUCTION

1.1 General Introduction

Theistic evolution or evolutionary creationism establishes teachings about God. Creation is compatible with some or all of modern scientific theory, including evolution.

The creation-evolution controversy itself originated in Europe and North-America in the late 18th Century.

Theistic evolution is not a theory in the scientific sense, but a particular view about how the science of evolution relates to some religious interpretations. In this way theistic evolution supporters can be seen as one of the groups who deny the conflict thesis regarding the relationship between religion and science i.e., they hold that religious teachings about creation and scientific theories of evolution need not be contradictory. The term theistic evolution was used by Eugine Scott to refer to the part of the overall spectrum of beliefs about creationism and evolution holding the theological view that God creates through evolutions.

Scientists, who do not believe in creation, do not believe in a Biblical God. Then a question arises what is the relation between Science and God?

1.2 Definition of Science, God, Evolution & Creation.

Science: Science is the knowledge about the structure and behavior of the natural and physical world, based on facts that one can prove, by experiments[1].

Scientist: Scientist is a person who studies one or more of the Natural Sciences for e.g.; Physics, Chemistry and Biology.

God: God is the being or that is worshipped and is believed to have created the Universe. This is the definition of God, according to theistic religions[2].

Evolution: Evolution is a gradual development and change from simple to complex.

In Biology organic evolution is a change in the inherited traits of population of simple organisms from one generation to next, till they reach complex forms. This change is possible in many centuries (Macro evolution). Micro evolution is the process by which species adapt when under pressure from environmental factors.

Creation : The making of the world, specially by God is described in the Bible. The world and all living things are his creations. Creation is a process of making something that is new or of causing something to exist that did not exist before.

In every artistic work or even a small scientific invention, there must be a designer behind it. The entire Universe is well designed, planned and left to certain laws. The Master Designer did not remain silent after creating the universe. The Master Designer is working even now. (John 5:17)[3]

1.3 Elaboration of the problem.

An attempt is made to explain the theory of Evolution in the light of evidences described in the Bible. Most of the scientists do not believe in the Biblical creation story. Most of the theologians do not agree with the theory of Evolution.

The chronological incidents in the history of earth when examined scientifically provide evidences to believe that some force controls the process of events in evolution. The Evolutionists agree that this force of evolution is from 'Nature'; therefore a Biblical God is not necessary. When they are convinced that this force is not from 'Nature' they may change their views of God. An attempt was given to support this view by own views in addition to the available literature[4].

There was a time when theologians did not agree that earth was revolving around the sun. Now, even some theologians believe that, the 'Big-Bang' is some Act of God's creation of Universe in the beginning.

The proposed research is original, even though many closely related research findings are referred, the present work compare the previous views and the proposed research work will proceed beyond the previous views and will provide more arguments beyond the existing views, for a consensus between evolutionists and creationists.

The views on evolution were referred to and the inner meanings of some of the verses in Bible re-examined and interpreted.

Major sources of references are from similarly published works and from websites and are included in the Bibliography.

The available research data in connection with the present work was analyzed and evaluated and or evaluated and presented with the views of the author.

1. Scientific theories are developed from experiments about a particular subject in order to explain why things happen or exist. Scientific views may change in the light of new evidences.

2. Oxford Advanced Learners Dictionary. Sixth edn. 2000. Oxford

3. 'Holy Bible' NRSV. Catholic Edn. Theological Publications in India. Bangalore. 2007

4. 'Bibilum sasthravum' by Dr. A.V. Thambi Hermon Publications. Calicut 2002.

CHAPTER - 2

SCIENTIFIC THEORIES REGARDING THE ORIGIN OF THE UNIVERSE.

There are many scientific theories regarding the origin of the Universe. The major Theories are:-

2.1 Big Bang Theory[1]

In physical cosmology, the Big Bang is the scientific theory that the Universe emerged from an enormously dense and hot state about 13.7 billion years ago. The Big Bang is the consequence once of the observed Hubbles law velocities of distant galaxies that when taken together with the cosmological principle and it implies that space is expanding according to the Freedman-Lemaitre model of general relativity.

The premise of the Big Bang is that the entire Universe was compacted into teeny tiny little ball, which after randomly coming to existence for no apparent reason in the first place, exploded into all space, time, matter and energy in an instant. The primordial explosion is the hall mark of the Big Bang Theory.

The original Big Bang Theory has lead to various Inflationary Universe Theory (IUTS). Some of the other important Theories are the Steady State Theory and Pulsating Universe Theory

2.2 Steady State Theory or Continuous Creation Theory[2]

This theory explains that galaxies recede from one another but their spatial destiny remains constant. That is to say, as old galaxies move apart new galaxies are being formed in the vacancies. These new galaxies are formed from new matter which is being continuously created to replace old matter which is being dispersed

2.3 Pulsating Universe Theory[3]

This theory explains that the Universe expands and contracts alternatively between periods running into tens of billions of years. This theory also thinks that some 13 billion of years ago, a great explosion occurred in the Universe and that Universe has been expanding ever since. It's likely to go on expanding for 29 billion years more, when gravitation would halt further expansions. From then on all matter would begin to contract or collapse upon itself in a process known as 'implosion' for 41

billion years into an extremely super dense state which will explode once again. This is the latest theory of the evolution of the Universe.

Most of the scientists believe that, the available evidence suggests that the Universe is open and that its expansion will never cease.

1,2&3 "Origin of Universe Theories"

http://www.allaboutcreation.org/origin-ofuniverse.htm.creation-origin of universe. Google.

CHAPTER - 3

EVOLUTION THEORY

3.1 Inorganic Evolution & Organic Evolution[1]

Evolution is gradual development and change from simple to complex.

In Biology organic evolution is change in the inherited traits of population of simple organisms from one generation to next, till they reach complex forms. This gradual change is possible through many centuries. Inorganic Evolution is the gradual development from the simple un-organized condition of primal matter to the complex structure of the Physical Universe.

In the beginning, before the origin of life, some of the inorganic molecules were combined to form organic compounds by chance. This is Chemical Evolution. Chemical evolution gave way to organic evolution of living things.

Chemical Evolution is also known as Biopoisis, Biogenesis, or Abiogenesis

There was no free oxygen in the beginning, but there were energy sources like, volcanoes, ultraviolet rays, lightning etc. Science says that in the above natural conditions amino acids were formed, by the reaction of different gases, water vapour and other chemicals. This was due to chance only. Science says, it remained for a very long period. The aminoacids from the atmosphere, reached soil, and later reached sea water. In the sea, different compounds reacted and by chance, Nucleicacids were formed. Similarly, aminoacids by polymerization caused the formation of different proteins. The first life might have occurred by the combination of Nucleicacids and proteins. Scientists are not in a position to tell the features of the first organisms so occurred. Miller and Uray two scientists have demonstrated, that in the laboratory, the original conditions of the earth are artificially created again and aminoacids can be created. This was a support to chemical evolution.

3.2 Different Theories of Organic Evolution[2]

1. Jean Baptiste Lamarck presents his theory of Evolution by Inheritance of acquired characters.

2. Theory of Natural Selection was presented by Charles Darwin in 1899, exactly 150 years earlier, from now. He was a philosopher. He argued that excess production of organisms, lead to competition, and there was a

survival of the fittest. He pointed out that the variations of different organisms helped the survival of the fittest.

3. Hugo De Vries put forth the mutation theory. Mutations are changes occurred in an individual spontaneously and these changes are passed to next generations and caused the evolution of organisms.

There are evidences from Embryology, Palaeontology, Physiology, Genetics, Comparative Anatomy, Zoogeography and other branches of science to support the theory of evolution.

3.3 Organic Evolution and Creation compared.[3]

It is better to understand organic evolution before we compare evolution theory with creation story of Bible

What is Evolution Theory? Evolution Theory explains that the life originated on earth first as simple forms and later, after many generations, changed to complicated forms.

Scientists believe that the combination of certain molecules get arranged themselves in a particular fashion in favourable circumstances and it resulted in the formation of D N A molecule[4].

These molecules gained the ability to replicate. This was the beginning of life. The D.N.A molecules in the presence of certain protein molecules led to the formation of simple organism with the ability to reproduce. The ability of reproduction sustained life till today, since its origin, in this planet. In course of time the simple living organisms evolved into complicated forms. DNA molecules became the physical basis of life. All living organisms including plants, animals and men possess these DNA molecules as the basis of life.[5] Scientists believe that the present universe is about 13.7 billion years old, and the geologists estimate the age of the earth approximately 4.6 billion years. For about one million years, the earth was without any form of life. The earth was hot in the beginning and one million years was necessary to cool the earth and to enclose form of life in this planet. Life appeared on earth only 3.5 billion years ago. First formed organisms lived in water only. Unfortunately there is no record of first lived organisms; plants originated from these simple organisms. Animals appeared in this planet in a later stage. The present simple living organisms throw light on the structure of first lived organisms. Scientists believe that, all this happened in nature by chance without the interference of a Master Designer. Only nature designed the shape and structure of different organisms. When organisms evolved from simple to complex, their intelligence too became

complex from simple nature. Evolutionists believe strongly that evolution happened in this earth only due to chance. Evolutionists give many evidences to support, the Theory of Evolution. The most accepted theory on evolution is Darwin's Theory of "Natural Selection".[6]

Creationists may raise many questions about the origin of species. Creationists believe that without a master mind, the non-living molecules cannot assemble to living molecules. The creationists believe that there must be a master designer, without Him such beautiful organisms cannot occur. Evolutionists believe that, the evolution is still in operation, and Nature is responsible for evolution.

Different types of cars are seen today. Every year new type of cars are being produced by different companies. Today old vintage cars are there along with modern well equipped cars. The vintage cars are like simple organisms and modern cars are like complicated intelligent organisms. Creationists argue that a car or an organism can be designed by a Master Designer and He continues His work still. God is the Master Designer and God is still controlling all things which take place in this universe. God works still. (John 5:17).[7]

---

1 & 2. " Genetics and origin of species" Thesdosius Dobzhansky. Oxford & IBH New Delhi. 1968.

3. "Creation & Evolution" http://en.wikipedia.org/wiki/creation-evolution-controversy. 170-02-2009

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5. "What is the mRNA complement of the DNA Triplet code. GTA? yahoo…….in answers yahoo.com/.../index?...-

6. "Origin of species by Charles Darwin" http://www.talk origin.org/faqs/origin html

7. "Holy Bible" NRSV. Catholic Edn. Theological Publications in Inda. Bangalore. 2007

CHAPTER - 4

BIBLICAL EXPLANATION REGARDING THE ORIGIN OF THE UNIVERSE

4.1 First Chapter of Genesis

Bible narrates the origin of the Universe in a few verses. Genesis the first book of Pentateuch, the first Book of the Bible is not a scientific narrative about the origin of the Universe; rather it is a story of the beginning of humanity's relationship with God. Genesis[1] contains four major divisions. The first division includes the creation narratives. The origin of Universe is included in the first narrative division. i.e. Genesis chapter one, verses 1-11. God created the entire Universe.

The evolutionary stages of life on the earth was given in the next verses of Genesis i.e., Gen. 1:11-28

According to Bible all living organisms were created by God. Man is the last of all creations. Creation was developed stage by stage; only after the creation of other living organisms man was created. God created every thing in six days. Man was created on the sixth day. God himself superintended and directed and dictated the writing of the Bible books with the human authors.

The words of Bible will not be changed or modified because; they are the words of God. Scientific Theories may be changed and modified. The authenticity of God's words may be understood from the following verses of Bible.

4.2 Biblical Theory & Gods unchangeable words

The following verses in Bible are very important.

1. "All scripture is inspired by God and is useful for teaching, for reproof, for correction, and for training in righteousness, so that everyone who belongs to God may be proficient, equipped for every good work" (2 Timothy 3:16-17 NRSV BIBLE)[2]

2. "For truly I tell you, until heaven and earth pass away, not one letter, not one stroke of a letter, will pass from the law until all is accomplished. Therefore whoever breaks one of the least of these commandments, and teaches others to do the same, will be called least in the kingdom of heaven; but whoever does them and teaches them will be called great in the kingdom

of Heaven" (Matt. 5:18-19 NRSV BIBLE).[3]

3. "I warn everyone who hears the words of the prophecy of this book; if anyone adds to them, God will add to that person the plagues described in this book; if any one takes away from the words of the book of this prophecy, God will take away that person's share in the tree of life and in the holy city, which are described in this book" (Rev. 22:18-19).[4]

4. "Heaven and earth will pass away, but my words will not pass away". (Mt. 24:35, Mk. 13:31 NRSV Bible)[5]

God never wants the scriptures to be destroyed. If the scriptures are destroyed, the future of the human generation would have been changed. Therefore God took steps or appointed people to preserve scriptures. Examples are given below.

The chief priest Hilkia takes steps to protect the scriptures. Details are given in 2 kings 22: 8-14 (NRSV Bible)[6]

God appointed Jeremiah to rewrite the scripture which were destroyed. (Jeremiah 36:27-30 NRSV Bible)

God has not revealed all secrets of Universe to his prophets. " The secret things belong to the Lord our God, but the revealed things belong to us and to our children for ever, to observe all the words of this law" (Deut. 29 ;29 NRSV Bible).[7] All the scientific secrets revealed by Scientists and secrets which are to be revealed by Scientists are due to the influence of Holy Spirit.

1, 2 & 3 All verses referred are taken from NRSV Bible, Theological Publication in India, Bangalore, First Edn. 2007.

4-7. "Holy Bible" NRSV. Catholic Edn. Theological Publications in India. Bangalore. 2007.

CHAPTER - 5

SCIENTIFIC THEORIES OF THE ORIGIN OF THE UNIVERSE IN THE LIGHT OF THE BIBLE VERSES

In the beginning God created heaven and earth. Heaven must be interpreted as space and all heavenly bodies. God first created heaven (space and heavenly bodies). The creation of earth comes second. Scientists also do agree that earth was formed later. When God created heaven, all heavenly bodies including stars were also created.

The first verse of Genesis explain the creation of Universe in one sentence "In the beginning God created the heaven and earth" (Genesis 1:1) Scientists say that the heavenly bodies spread into space due to a big explosion of the matter which was in a compressed state. Scientists express this expression as Big Bang. "God's creation of this Universe" may be compared to "Big Bang" of scientists. The author of this thesis expressed his view in his Book, Bibilum Sasthravum[1] There is a reference in: "A brief History time" [2] by Stephen Hawking: it is like this. "The catholic church on the other hand seized on the Big Bang model and in 1951 officially pronounced it to be in accordance with the Bible".

Scientists believe the Big Bang occurred about 13.7 billion years ago and earth was formed from 'Sun", only 4.5 billion years ago. The first verse of Genesis also says that the earth was created only after the creation of Heavenly bodies. Biblical explanation does not differ with science.

The second verse in Genesis says that the earth was formless and was not inhabitable.

"The earth was formless void and darkness covered the face of the deep...." (Gen. 1:2-NRSV Bible)[3]

"... And the earth was without form and void: and darkness was upon the face of the deep..."(Gen. 1:2-King James Version Bible).[4]

The creation story of Genesis has got many similarities of Babylonian creation story, story of "Enuma-Elish" (Second millennium Akk creation poem Enuma Elish). Formless and void means "Tohu wa bohu" in Hebrew.

Theologians interpret that, this part of Bible is to show that "chaos" existed in the beginning and Hebrew word "Tohu wabohu" (Formless and

void) means, "without shape or form so as to be uninhabitable by humans-metaphorically, "groundless or unreal"[5]

God's work was to create an order for everything. The separation of water from ground, and dark from light was the beginning of God's work to make everything in an order, for organisms to live.

"and darkness covered the face of the deep, while a wind from God swept over the face of the waters"[6] (NRSV Bible Gen. 1:2)

Then God said, "Let there be light; and there was light" (Gen. 1:3 NRSV. Bible)[7]

The separation of waters from ground (Ge.1:9) and separation of light from darkness (Gen 1:3)[8] was to make an order for the further created organisms.

When earth was created, the earth was not habitable. Science also argues that, there was no life on the earth in the beginning, because the earth was not habitable for a long period. Science teaches that, the earth was in a molten stage (formless in the Bible) due to high temperature. The earth was cooled down to the habitable stage slowly after one million years. The earth's atmosphere was full of different gases and dust which did not allow light to penetrate into the surface of the earth.

When God created Heavens, all the stars might have been created, including sun (the nearest star to earth). Science teaches that, the sun's rays did not penetrate earth's atmosphere due to heavy dust and gases.

5.1 The creation of light – given in the Bible and scientific explanation of it

God created Heaven and Earth (Gen. 1:1)[9] when God created Heaven and all heavenly bodies, all stars might have been created. Heaven must be equal to the word "space" explained by Science. God's creation of heavenly bodies must be considered equal to the big explosion or Big Bang which caused the spreading of matter into space. Bible says this is the origin of God's creation and Science says this is the origin of Universe. Science believes that, the "time" started from "Big Bang". Bible says God is the "beginning" and end: "I am the Alpha and the Omega" says the Lord God, who is and who was and who is to come, the Almighty."[10] (Revelation 1:8) Science cannot say about time before Big Bang.

When God created all stars, the star "sun" also was one among them. In the Bible the word "sun" is not used in the beginning. The word "Greater

light" for nearest star that is, sun and lesser light may be moon, the greater light to rule the day and the lesser light may be moon to rule the night " (Gen. 1:16)[11] These greater light and lesser light were described on the 4th day.

Even though God created light on the first day, the explanation of "sun" which gives light in the day time is mentioned only on 4th day. In what way this can be explained scientifically? H. Hally in his book "A hand book of Bible" [12] explains that, the earth was in the molten stage, and earth's atmosphere was very hot and earth's atmosphere was full of dust and gases, the sunlight could not penetrate the surface of the earth, in the beginning. In due course, the earth's atmosphere was cool, the dusts was settled, and the atmosphere was transparent so that the sun light could penetrate through earth's atmosphere. The cooling of earth's surface was a slow process, and according to Bible explanation, it might have happened within 4 days. This is the reason that, even though God created light, the light penetrated to earth's surface only on the 4th day. Each day of God might be equal to many thousand years. This point is elaborated in the following chapters.

The plants were created only on the 3rd day. Plants did not grow till the 3rd day of Gods creation. The explanation for this is that till 3rd day, no trace of light was penetrating to the surface of the earth. Very weak light might be penetrating through the earth's atmosphere, from 3rd day onwards. Plenty of sun light started reaching the earth's surface only on the 4th day onwards, and this light; from the 4th day onwards caused the formation of seasons, (Gen. 1:14)[13] and luxuriant growth of plants.

God did not create an earth with plants and animals on the first day, God created plants first, when a meagre light was penetrated and only after luxuriant light penetrated the surface of earth on the 4th day, the vegetation was rich and then only God created animals on the 5th day. Science also explains when the earth was formed from the sun, it was hot and the atmosphere of the earth was not suitable for plants' growth on earth. Science says the earth was barren without any vegetation in the beginning; plants originated when light penetrated the surface of the earth. Plants synthesise food, using sun's light energy. Science proves the origin of plants first and the origin of animals second. The explanation given in Bible and explanation given by Science do not make any serious difference.

Many theologians believe that, the creation is progressing day by day and God's day is not equal to man's day of 24 hrs. Gods one day may be of thousands and thousands of years of human day's duration. (More details about this is given in the following chapters)

When we say that God's day is equal to one million years, and plants were created only after 4 million years after the formation of the earth, a full day is equal to one night and one day. Then a problem arise, when God's day is calculated as one million years half- a million years will be equal to night or darkness and half a million years with day's sun light. Plants cannot remain half-a-million years in darkness; because plants require continuous light for their existence. If plants remain in darkness for a long period of half-a- million years, they may die. Therefore the scientists deny the explanation of God's day is equal to thousands and thousands of years. To overcome this argument, the only way is to think that God might have allowed the plants which existed on those days, to exist in weak stars' light which might have provided sufficient energy for the existence of plants. In this long period, plants might have lived by chemosynthesis.[14] Another explanation is that, the progress of God's creation day by day is only literal to show that, there were stages of the creation. These stages may be interpreted as evolutionary stages of plants and animals.

The verse of John is like this. (John 1:9)[15] "The true light, which enlightens every one, was coming into the world". The meaning of this verse may be like this, the spiritual life of man was due to continuous "true light" of God or God was sending his soul or spirit continuously for saving human race from spiritual death. The verse also explains about the continuous supply of light. It may be interpreted that, from the beginning of plants and animals, God's light was continuous till today for giving life to all organisms physically and spiritually. The usage of "was coming" in the above verse, shows the continuous supply of light. Progress of creation day by day coincides with Evolution Theory.

All organisms are not created within "one day" duration. Organisms were created in different stages as follows. Here an evolutionary progress can be noted.

First day	-	created the Universe & the Earth created light and separated light form darkness.
Second day	-	Earth atmosphere was separated from sea waters. Separated waters from waters (origin of different seas)
Third day	-	Separated land and seas, vegetation started growth Seed bearing big trees were created
Fourth day	-	Strong sun's rays started reaching earth's atmosphere Seasons started

Fifth day	-	a) Water living creatures were created.
		b) Birds and other flying animals were created (Here birds may be interpreted as flying invertebrates).
		c) Creatures on the earth, including sea monsters (may be dinosaurs or big whales).
		d) Birds are mentioned again (This may be for true vertebrate birds)
Sixth day	-	a) Land animals (may be mammals), were created.
		b) Man was created in Gods image (man was more intelligent to have dominion over animals).

The verse 30 of chapter 1 and verse 7 of chapter 2 say about "breathe of life" [16]. It means that, the physical life in men, animals and plants are the same. Man might not have been created specially from other animals; that means, man was evolved in the last stage of evolution. All animals and plants were created from the elements available from earth. In the creation of man only "from the dust of ground" is mentioned. It may be interpreted, that all organisms including man are from soil only. Solomon says in his wisdom that "for the fate of humans and the fate of animals is the same; as one dies, so dies the other. They all have the same breath, and humans have no advantage over the animals; for all is vanity. All go to one place; all are from the dust and all turn to dust again" (Ecclesiastes 3:19-20) [17]. The verse means that the course of evolution is the same for all organisms including man.

God could have created man on the first day without creating other organisms including plants. But God created man, only on the last stage. The course of creation is: first plants, then water animals, then land animals and birds. Man is created in the last stage. Here, Bible and science do not make any differences. The story of creation and evolutionary story of organisms are the same. A consensus is possible between creationists and evolutionists.

In Bible the word "creation" denotes as a property and right of God. Evolutionists do not believe in creation. The word Creation is to note that, God directed the emergence of each species of plants and animals. 'Every kind' mentioned in verse 12 of chapter 1 of Genesis, became 'every species' of organisms. The "formation" or "changes" to species is to be interpreted as "creation operated by God". Only when God wanted, the emergence of

any new species happened. After creating new species of different animals and plants God do not sit idle. God continues creating new species. The verses of chapter 102 of Psalm may throw light to this statement. "Let this be recorded for a generation to come, so that a people yet unborn may praise the Lord" (ps. 102:18)[18] "People yet unborn" may be interpreted like this - "the new varieties and subspecies of *Homo sapiens* to be evolved". The evolutionists say, that it is only chance by nature. Creationists argue that unintelligent nature or earth cannot direct 'evolution till the occurrence of man.' Non living nature cannot give chance to evolve life; only living God can give life.

If there is no supervision of a designer, the organisms would not have been possible. All organisms are well designed and planned. There was a base plan even before the formation of man's stage of evolution. Only mere "chance" would not have evolved many organisms of today. The changes from each "kind" organism to final stage "man" is well planned, well designed and well organized by a Master Mind.

Darwin says "life begets life". The original or first life is given by the living God or a Mastermind. A "mindless" nature cannot design the present world like this.

All machines of today are not made by chance; they are created by human mind from simple to complicated forms. The evolution of different "cars", "Computers", "aero planes" or any "machine" from simple to complicated type is planned by the mastermind of man. There is no chance, only designs by human mind. It is reasonable to envisage that all living organisms are designed and evolved by the work of "super intelligence" or a "master designer".

Malankara sabha vijnanakosam"[19] say that "God created man on the top of all creations. The Bible does not teach what science intends. Even then the creation of six days is an evolutionary process and it is in accordance with evolutionary theory"

5.2 Different evolutionary stages of organisms given in Bible,

The following references in Bible show the arrangement of animals in an evolutionary sequence, or vice versa.

1. The creation of animals in genesis on the 5th day and 6th day and plants earlier to animals on the 3rd day. (Genesis chapter 1: verse 11 to 25)[20]. The sequence of creation is as follows:

(a) Simple plants, (b) seed bearing trees, (c)water living animals, (d) sea

animals (invertebrates) and sea monsters (fishes and dinosaurs- reptiles), (f) Land animals (reptiles, birds), (g) forest animals (mammals) and finally human being.

2. Genes: 7:23.[21] ((a) Human beings, animals (mammals), creeping things (reptiles and some invertebrate), birds (may be birds and butterflies)

3. Psalm 8:3. -9[22] (a) Human beings, ' (b) sheep, oxen (mammals), (c) beasts of the field (other mammals), (d) birds , (e) fish of the sea.

4. Romans 1: 23[23] (a) Human beings , (b) birds, (c) four footed animals, (d) reptiles.

1 Kings 4:33. (a) Animals (mammals), (b) Birds, (c) reptiles, (d) fish.

In Koran[24] and in Hindu Puranas [25] also evidences of evolution can be traced.

I have already mentioned about God's day which will not be equal to man's 24 hrs day. Next we will compare God's day with Geological time scale.

1. "Bibilum Sastravum" (Bible and Science) by Thambi.A.V. Dr. Hermon Publications. Calicut, 2002

2. "A Brief History of Time" by Stephen Hawking pp.10 Bantam Books London 1992

3,6,7,8,9,10, 11 & 13. 'Holy Bible' NRSV. Catholic Edn. Theological Publications in India. Bangalore. 2007.

4. "The Holy Bible" King James Version. American Bible Society. Instituted in the year 1816. New York. ABS-1959.

5. "The New Jerome Biblical Commentory" Ed. by Reymond. E Brown. ss. Theological Publications in India. Bangalore 2002. 99 10. column 2.

12. "A hand Book of Bible" By Henry. H. Hally.pub. Halley's Bible Handbook Inc. USA. 1962. pp. 21-23.

14. Chemosynthesis is a process by which plants obtain energy by chemical reactions.

15. 'Holy Bible' NRSV. Catholic Edn. Theological Publications in India. Bangalore. 2007. The verse may be interpreted in another way. "The true light that enlightens every one was coming into the world."

16 & 17 'Holy Bible' NRSV. Catholic Edn. Theological Publications in

India. Bangalore 2007. The author of Genesis and the author of Ecclesiastics use the term breath of life; meaning that life originated with breath of God.

18. 'Holy Bible' NRSV. Catholic Edn. Theological Publications in India. Bangalore. 2007 The same verse given in King James Version ("The Holy Bible', American Bible Society. NY 1959) is like this"..... and the people which shall be created....." This may be interpreted the subspecies of Homo sapiens to be created".

19. "Malankara Sabha vijnanakosam" - "The Malankara Orthodox Church Encyclopedia" in Malayalam. pub. by Orthodox Theological Seminary Kottayam. 1993. pp 872, colum 2, para 2)

20-23. "Holy Bible" NSRV. Catholic Edn. Theological Publications in India. Bangalore 2007.

24. Koran. 'Quran Bhashyam' Translated by Ubaid.T.K. IPH Calicut. 1988. 'Koran' 22:18 Heavenly bodies are created first, then only Earth and earthly things are created. Plants were created before animals. Man was created in the last stage.

'Koran' 23:12 Man was created through different stages. The sequence may be traced from non living, unicellular (small tiny creature), Embryo (multicellular stage), Lump of Flesh (invertebrates), Bones (Vertebrates) Transformed to another creation (as man). All these stages show in Evolution.

25. Hindu Purans. "Bharateeya Paithrukam" Editors-sugathakumari, Krishna Warrier and Velayudhan.K. pub. by Kerala Bhasha Institute, Trivandrum. Ten Avathars of Vishnu described represents Evolutionary stages. Ten avatars are given below:-

1] Malsyavatharam (represents early vertebrates) 2] Koormavathram tortoise – (reptile stage),

3] Varahavatharam (pig-Mammal stage). 4] Narasimhavataram (transitional stage between mammal and man) 5] Vamanavataram (earlier Cave-man stage) 6] Parasuramavataram (hunting man of Stone Age)

7] Rama, 8] Balaraman. 9] Krishna (all represents modern man). 10] Kalki (not yet evolved or to be evolved)

CHAPTER - 6

CREATION PROGRESS IN THE BIBLE & GEOLOGICAL TIME SCALE

6.1 An attempt to bring a consensus between creationism and evolutionism[1]

Scientists who strongly believe that, there exists long duration between the different stages of organic evolution. Creationists on the other hand believe strongly that, the creation is progressing day by day. By examining some verses of the Bible we may come to the conclusion that there is no fundamental difference between the creation story in the Bible and Geological time scale described in Science or Palaeontology.

6.2 Geological time scale[2] compared with each day of God's creation

Some Theologians[3] calculate that, the age of the earth is merely 6000 years. Some other Theologians[4] believe that the age of the earth may be as calculated by geologists.

Let us have an idea what science says about the past history of the earth as explained in Geological Time Scale of earth.

GEOLOGICAL TIME SCALE[5]

The Geological Time scale is used by Geologists and other Scientists to describe the timing and relationship between events that have occurred during the history of the earth. The table of geological periods presented here agrees with the dates and nomenclature prepared by INTERNATIONAL COMMISSION ON STRATIGRAPHY.

The Geologists have divided the earths past history into a number of major divisions. Details are shown in the table 1 & 2.

TABLE 1. GEOLOGICAL TIME SCALE[6]

	ERAS	IN YEARS	ORIGIN OF ANIMALS
1	Beginning of AZOIC ERA	4600 - 3500 million years back from today	No life
2	ARCHEOZOIC ERA	3500 - 1600 million years back from today	Origin of Organisms
3	PROTEROZOIC ERA	1600 - 600 million years back from today	Origin of invertebrates
4	PALAEOZOIC ERA	600 - 230 million years back from today	Origin of vertebrates

5	MESOZOIC ERA	230 -135 million years back from today	Origin of Reptiles & Birds
6a	COENOZOIC ERA	135-60 million years back from today	Origin of Mammals
6b	PSYCHOZOIC ERA	One Lakh years back from today	Origin of Different Species of Human beings

The age of fossils of many extinct organisms has been estimated scientifically. The organisms lived in the past in different eras and their sub divisions are presented in the Geological Time Scale. The Table shows that there was no life in the beginning. When invertebrates were there, in the beginning there were no vertebrates. When dinosaurs dominated the earth, the mammals started evolving; mammals appeared on the earth only in the later stage. Man evolved in the last stage.

If we compare six eras of Geological Time Scale with six days of God's creation, we can observe many similarities. In the Azoic Era there was no life at all. In Gods creation details, God did not create any organisms in the first stage.

Geological record shows that the emergence of invertebrates as the first animals and later vertebrates and man was evolved in the last stage. Bible creation story also tallies with progress of evolution

Bible says that man was only yesterday's creation. The following verses support this view.

1. "For inquire now of bygone generations and consider what their ancestors have found; for we are but of yesterday, and we know nothing, for our days on earth are but a shadow" (Job. 8:8).[7]

"And we know nothing for our days on earth" may be interpreted like this "we do not know the different stages of evolution", "we are but of yesterday" may be understood as "we were evolved in the last stage"

2. "My days are like an evening shadow, I wither away like grass" Psalm 102:11)[8] "Evening shadow" may be interpreted as "evolved in the last stage"

3. "From one ancestor he made all nations to inhabit the whole earth, and he allotted the times of their existence and the boundaries of the places where they would live" (Acts 17:26)[9]

"The Ancestor" is Adam and all his children are successors of Adam. Adam was created after the creation of all other organisms. More explanations are included in the next chapter.

6.3 God's one day and Man's one day

Creation story progresses day by day. God's one day in the creation story is not equal to man's 24 hrs day. God's one day may be equal to man's thousands and thousands of years. "But do not ignore this one fact, beloved, that with the Lord ONE DAY is like a THOUSAND YEARS, and a thousand years are like one day" (2 Pet 3:8)[10]. "For a THOUSAND YEARS in your sight are like yesterday when it is past or like a WATCH IN THE NIGHT" (psalm 90:4).[11] Job asks one question to us, "Are your days like the days of mortals or your years like human years". (RSV Bible Job: 10:5)[12] "Are thy days as the days of man? Are thy years as man's days …" (Job 10:5 Bible King James version)[13]. From the above verses we may conclude that, the "creation day" duration may not be equal to human day.

Many theologians are of the opinion that, the creation day of God is of many years duration. Claus Westermann in his book "A thousand years and a day"[14] (pp 6, 7) makes this idea clear. Maurice Bucaille also explains this idea in his famous book "The Bible, The Koran and Science" (pp. 121).[15]

Similar statements are seen in Koran also (Koran 32.5).[16] "Bharateeya Paithrukam" (vol.1 chapter – puranas, PP. 74)[17] gives the length of Brahma's one day is equal to 4320000000 human years. "Bhagavad Gita as it is" [18], also explains similarly.

In the light of above explanation, the creation story of 6 days may be compared to six Eras of Geological Time Scale. The following comparative table gives similarities of creation story in the Bible and evolution of man given in Geological Time Scale.

"CREATON" progresses "day by day" and 'evolution' progresses "ERA by ERA" are almost similar. Bible story is not written with an intension to prove the theory of evolution. It was written, that man was created only when all necessary things are created for his necessity. Verses 29 to 30 of GENESIS explain that man was superior over all creatures and he was only

TABLE 2. GEOLOGICAL TIME SCALE[19] AND BIBLE CREATION STORY COMPARED

BIBLE- CREATION STORY	GEOLOGICAL TIME SCALE
DAY 1 ORIGIN OF UNIVERSE & EARTH NO LIFE	AZOIC ERA, NO ANIMAL AND PLANT LIFE
DAY 2 SKY AND WATERS AND LAND SEPARATED, NO LIFE	ARCHAEOZOIC ERA, ORIGIN OF LIFE
DAY 3 PLANTS CREATED & NO ANIMALS	PROTEROZOIC ERA INVERTEBRATES APPEAR
DAY 4 CREATION OF SUN AND STARS OR LIGHT STARTS PENETRATING EARTH'S ATMOSPHERE	PALAEOZOIC ERA VERTEBRATES APPEAR, FISHES AMPHIBIA, REPTILES APPEAR
DAY 5 WATER LIFE CREATED, SEA MONSTERS, BIRDS (FISHES AND BIRDS)	MESOZOIC ERA REPTILES AND BIRDS APPEAR, DINOSAURS DOMINATE
DAY 6 A) DIFFERENT VERTEBRATES B) LAND ANIMALS C) MAMMALS D) MAN	COENOZOIC ERA A. MAMMALS APPEAR B. MAN APPEARS

one link in the food Chain. "I have given every green plant for food to all other animals and human being" (Gen. 1: 29-30)[20]

From the above statements it is convincing that a compromise is possible between creationists and evolutionists.

God's one day in Koran[21] 70:2 "…… on a period of time (yaum) where of the measure is 50000 years." Koran 32:5 "……. In a period of time (yaum) where of the measure is Thousand years of your reckoning".

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1. "Organic Evolution and Bible" http://www amazon.com/origin.species. charles darwin/dp/057123207/kindle edition.

2&5. "Geological time scale"http:// india.smashits.com/wikipedi/ creation.evolution.controversy.

3. Kevin Martin walter veith, Russel Humphrey, Keith Davis believe the age of earth 6000 years only. "Biblical young Earth creationism".www.nwcreationism.net/ age youn.html-

4. William Stanefield, Roger Lewin, Josephus believe in creation in the light of Evolution Theory. "Theistic Evolution-oneChristian perspective"www.theistic-evolution.com/-

6. 'Geological Time Scale' wikipedia."Creation-evolution-controversy".

7,8,9,10,11&12 "Holy Bible' NRSV. Catholic Edn. pub. Theological publications in India. Bangalore 2007.

13. 'The Holy Bible'. King James Version. American Bible Society. NY.ABS-1959.

14. 'A Thousand years and a Day' by Claus Westermann pub.Aug.sburg Fortress. Germany. 1982. pp 6&7

15. The Bible, Quran and Science' by Maurice Bucaille (French) translated by Alastair. D. Pannel.pub. Anasoriyan.Iran.2002. pp. 121

16. 'Koran' translated by ubaid.T.K. "Quran Bhashyam' IPH Calicut 1968 'Koran'-32.5

17. 'Bharateeya Paithrukam' (eds.and translated by) Sugathakumari, Krishna warrier and Velayudhan.K. pub. Kerala Bhasha Institute, Trivandrum. vol. 1. chapter puranas-pp 74.

18. 'Bhagavat Gita as it is" by Bhakti Vedanta Swami Prabhu Padar A.C. (Bhagavat Gita-Yadha roopam- Malayalam) transl. by Nalappatt Balamani Amma. pub. Bhakti Vedanta Book Trust, Tvm. 2007. pp. 492

19. 'Geological Time Scale' http://India.smashits.com/wikipedia/creation.evolution.controversy

20. 'Holy Bible' NRSV Catholic Edn. pub. Theological Publictions in India. Bangalore 2007

Verse 29 pf Genesis- "God said, I have given you every plant yielding seed that is upon the face of all the earth, and every tree with seed in its fruit; you shall have them for food."

Verse 30- "And to every beast of the earth and to every bird of the air, and to everything that creeps on the earth, everything that has the breath of life, I have given every green plant for food. And it was so."

21. 'Koran' translated by Ubaid.T.K. "Quran Bhashyam" in Malayalam pub. IPH. Calicut 1968.'Koran' 70:2 & 32.5

CHAPTER - 7

FIRST CREATED MAN, ADAM

If God had created man on the first day and then the animals and then plants, we would not have claimed that Bible and science do not make any difference. Bible was written, by the force of Holy Spirit. Nothing is written in the Bible, without the knowledge of God. God revealed himself to his prophets from time to time, and what is written is written correctly. Nobody can change a word of God written in the Bible. What is revealed in the Bible is truth only.

The verse written in Revelation may be applicable to all verses of Old Testament and New Testament. The Revelation chapter 22 and verses 18 onwards are read like this "I warn everyone who hears the words of the prophecy of the book. If anyone adds to them, God will add to that person, the plagues described in this book; if any one takes away from the words of the book of this prophecy, God will take away that person's share in the tree of life and in the holy city, which are described in this book." (Revelation 22: 18-19)[1]

The book of Genesis was from different sources. J.E.D. & P.[2] Moses might not have written the entire Pentateuch. Whether Genesis is written by Moses or whether the sources are from, "j" source or "P" source or whether Genesis was written in the post exile period, one fact is true that, the words are from God through different sources.

No body can change what is written in Genesis. They are the words of God. The only possibility is that, we excavate the necessary evidences to support evolution theory, from different books of the Bible.

7.1 Creation of Man

Man was created by God. He created man from the dust of soil. Genesis chapter 2, verses 7 says "another creation account"

It reads "Then the Lord God formed man from dust of the ground, and breathed to his nostrils, the breath of life, and the man became a living being". (Genesis 2:7, NRSV Bible)[3] In another translation instead of "living being", "living soul", is seen (King James version)[4]

The above verse was interpreted by many theologians that God actually made a mould of clay and shaped the mould into a human being. God allowed his breath to enter the nostrils of this and he became a living being and that

was Adam. Descriptions given in Genesis never say the creation of any animals or plants like this. God said and all living things were formed. God could have created man also like that. The verse7, of chapter 2 may be to remind, that all creatures including man are created by the word of God, and man also might have formed like that. The 'dust' is to remind that all creations are from dust and they have to join dust after death. The verse 7 is only a reminder that all will have to return to the dust, after death. Genesis 1:30, 2:7 psalm 104:29, 30 and Eccl. 3:19-20 describe breath of life for all organisms including man.[5]

Solomon was given knowledge and what Solomon said is of God's wisdom. Solomon says "and the dust returns to the earth as it was and the breath returns to God who gave it". (Eccl. 12:7).[6] Solomon says "all are from the dust and all turn to dust again" (Eccl, 3:20)[7] Here He means "all" as "all creatures". We have to understand that God created all creatures (all plants and animals) from dust and all will return to soil. The verse 7 of chapter 2 says, "God formed man from dust" This does not mean that, God made dust in the shape of man and gave life. God formed man from dust; we need not give importance to the form of man. What God has done, is that like all other creatures man was also formed from dust that means his physical body contains all worldly elements. Special attention was given to man to give the spiritual ability. When God gave His spirit to man, he became an intelligent man. All creations except man do not have the ability of super intelligence. When God created man he was created with intelligence, many times more than that of animals is only to show this, the word "breath of life" given in verse 7 of chapter 2 of Genesis.

When man was created, he was created in God's image. "So God created human kind in His image. In the image of God, He created them; male and female He created them" (Gen. 1:27)[8] "yet you have made them a little lower than God, and crowned them with glory and honour" (Psalms 8:5)[9] "you have made them for a little while lower than the angels. You have crowned them with glory and honour" (Hebrew 2:7)[10]

All scientific inventions are made by human beings only, because God has given His glory and honour to man. God's ability of creation was also given to him.

What is the "image of God"? Does God have the shape and physical structure like man? It may not be. "Image" means, Gods power of creation, it is the ability of God to create. When man creates anything, all his creations will be similar to the creation of God. Man cannot create anything new more than God has created. For example when man creates or designs an aeroplane,

it is similar to that of a bird, which was created by God earlier. Similarly we can get innumerable examples. A car can be compared to a tiger. Four wheels are four legs of tiger. Each organ can be compared to different parts of a car.

A Tiger takes organic food. Car consumes petrol both gives energy. Chemical energy is converted to mechanical energy. There must be a driver in the car. A tiger must have life given by God. (Table has got four legs; an animal has got four legs. A watch produces, "Tick tick" sound, like 'heart beats'. A camera is similar to the eye of vertebrate. A computer is like a human being, in both; memory is there. When we construct a pillar, there will be iron bar, then covered, in the outer covering there will be plastering. A leg of an animal with bones in place of iron rods, muscles in place of concrete and skin in place of plastering, and so on). All instruments created by man, resemble the creation of God, because God created him in his image. When man can create everything in his image, why not God can create man in his image? What is written in the Bible, "God created man in his image" is true.

When God created animals, God never said, they were created in his image. The creative power was given to man. Man's physical body is similar to animal body. All the systems of the body are working in the same principle. A man has got digestive system, muscular system, circulatory system reproductive system and all other systems. All systems are working similarly in man and other organisms. Habits and behavior can be traced from chimpanzee. It got 98% human genes. These similarities throw light to the conclusion that, man might have been created or formed in the same manner as other animals. Or these animals might have been created in the same manner as man was created. This statement is applicable to the physical body of man and other lower animals. Still then, in Bible special mentioning is there about man's creation. Man was created with some difference from animals. God has given his breath to man. This breath is not merely "air", that was "God's soul" or "God's spirit" given to man. Because man got God's spirit or soul, he started reasoning things, he was able to recognize good and bad, he was able to behave like "a little lower than angels". Man was given complete freedom to select either good or bad according to his choice. Man was given freedom to opt either Satan or God. Man was given intelligence to identify good from bad. "And man became a living being" (Gene 2:7). This translation given in N.R.S.V Bible is correct. The translation seen in "THE HOLY BIBLE" –King James version- is like this "and man became a living soul" This translation is given in The Thomson Chain-Reference Bible" also. The "word" 'soul' is given in different meaning, on different occasions. "Soul" may be "life" or "soul" may be "spirit of God" or

'soul' may be "Holy spirit". In psalm 51:11 David prays ".....and do not take your holy spirit from me" and in 51:10 and 51:12 he prays soul as spirit.

Some examples are given below:

1.	I Samuel 18:1	-	Soul as mind
2.	Gen. 49:6	-	Soul as mind
3.	Deut .11:13	-	Soul as mind
4.	1 Kings 8:48	-	Soul as mind
5.	Job 10:1	-	Soul as life
6.	Job R: 10	-	Soul as life
7.	Psalm 16:10	-	Soul as life
8.	Psalm 19:17	-	Soul as life
9.	James 1:21	-	Soul as spirit
10	3 John 1:2	-	Soul as spirit
11.	Acts 15:24	-	Soul as Heart
12.	Rom. 13:1	-	Soul as human being
13.	Mathew 22:37	-	Soul as spirit
14.	Mathew 10:20	-	Soul as spirit

Mathew 22: 37 reads like this "Jesus said unto him, Thou shall love the lord thy God with all thy heart, and with all thy soul, and with all thy mind." Even though, "soul" was used in different verses in different meanings, here in this verse, mind, soul and heart are given together.

[The original writing of GENESIS is to be examined and in what meaning the "soul" is used is to be traced or found out].

One thing is clear; soul stands for mind, spirit, person and life in different situations.

God's spirit gave man the wisdom or intelligence, for e.g.; " The spirit of Lord shall rest on him, the spirit of wisdom and understanding, the spirit of counsel and might, the spirit of knowledge and the fear of the Lord" (Isaiah 11:2).[11] God gave his spirit to Adam and Adam was an intelligent man. This may be considered as a mutation occurred in Adam, and this mutation in Adam created Adam and his descendants to the formation of a new species or new sub species.

7.2 Origin of first Man; Creation and Evolution compared.

"Man became a living soul "means either" man became a living bodied creature" or "man became living bodied creature with living spirit of God"; the life given to man's "soul" not to body. Man might have been created like other animals and when man was given special spirit of God in his living body that is to be noted specially.

God might have breathed to the physically living body of man who had already been created like other animals. Jesus Christ has breathed similarly on his disciples before they were sent to the world after his resurrection. John explains this incident like this. (John 20:20-23)[12]

"Then the disciples rejoiced when they saw the Lord. Jesus said to them again "peace be with you. As the Father has sent me, so I send you. When he has said this, he breathed on them and said to them; "Receive the Holy Spirit, if you forgive the sins of any, they are forgiven them; if you retain the sins of any, they are retained". John says that "God is spirit" (4:24); [13] here the word spirit in the means "soul"

In the above incident Christ breathes on the disciples and says, 'receive the Holy spirit' why should not we think that, Lord God breathes on the living physical body of Adam and gives his Holy spirit; so Adam becomes a living soul or Adam became spiritually alive.. God has not given his spirit or soul like this to any animal. God gave his spirit only to Adam and Adam becomes an intelligent man, it has been already pointed out that, God breathes his spirit into the physical body of Adam and Adam becomes a living soul. There is one proof to support this view. When we refer verse 4 of chapter 6 of Genesis it is clear that God gives his spirit to Adam. "The Lord said, 'My spirit shall not abide in mortals for ever, for they are flesh, their day shall be one hundred and twenty years". (Gen. 6:3)[14] "When you send forth your spirit they are created" (Psalm. 104:30).[15] Here the word 'spirit' is used instead of 'breath'[16]

God repents when Adam misuses his freedom. God feels sorry for the creation of man. It is clearly mentioned in the verse 5 of chapter 6 of Genesis, "The lord saw that the wickedness of human kind was great in the earth and that every inclination of the thoughts of their Hearts was only evil continually. And the lord was sorry that he had made humankind on the earth, and it grieved him to his heart." (Genesis.6:5-6.)[17] Because Adam became an intelligent man, he began to think reasonably; he was able to know good from bad, God gave Adam freedom to accept good or bad. This freedom led Adam to go away from God. God repented when Adam misused his freedom.

In course of evolution, man and apes might have originated from a common stem. Of all the apes chimpanzee is more related to man. 98.4% similarity is seen between the DNA (genes) of chimpanzee and man. Palaeoanthropology traces human evolution in fossil hominid evidence through genus Homo to modern man.

God gave his soul to man i.e.; to first man who was Adam. From this time onwards, the spirit of God or soul of God continued to remain in human beings. We are also having God's spirit, even today, because what God gave to Adam persisted generations to generations and we retain the same spirit or soul of God in us; Jesus Christ affirms that God's spirit is existing in His children. Mathew chapter 10 and verse 19 & 20 say like this[18]

"When they (gentiles) hand you over, do not worry about how you are to speak or what you are to say; for what you are to say will be given to you at that time, for it is not you who speak, but the Spirit of your Father speaking through you" (Mathew 10: 19-20). It is clear from this statement of Christ that the spirit of Father exists from Adam to the disciples from generation to generation.

The conclusion is that when God, breathed on the body of Adam, he became a spiritually full-fledged human being; till that time Adam was like other animals in his nature. Man became a child of God, with God's character. The verse of Psalm reminds that man was created lesser than God. When God breathed on the physically living body of Adam, Adam became spiritually living human being.

"Spirit in Jesus" organization when they celebrated their Annual Day, published their views regarding those who died in Jesus. They say that the breath of God given to Adam was his soul, "soul or spirit" was inherited in all human beings from generation to generation". (Malayala Manorama daily dt. 30-4-2008. page 19, column 1).[19]

When a person dies, his life ceases to exist. His spirit, which is given to him, will be taken back to God; the physical body joins to the earth's materials. "And the dust returns to the earth as it was and the breath (spirit soul) returns to God who gave it" (Ecclesiastes 12:7).[20]

The Bible strongly declares that all things are brought into existence and sustained by God's present creative activity. Psalm 104: 29-30 reveals" when you send your spirit, they are created and you renew the face of the earth" [21]

Keth .B. Miller says[22] "I see no reason to reject an evolutionary origin of

man for human kind. In fact, the testimony of both scripture and nature is that we share a oneness with the rest of creation. Our physical features are inseparably connected to the rest of life on earth".

Many theologians think that Adam was the first individual of the sapiens of Homo species. Dick Fisher[23] is one among them. He says:

"The Bible does position Adam as the 'first man' (1 Cor. 15:45) but what definition is to be applied? Could Adam have been the first hominid, an Australopiticine perhaps, or first of the genus 'homo', such as '*Homo habilis*' or '*Homo erectus*'? Was Adam first of the archaic *'Homo sapiens*' first of modern '*Homo sapiens'* the first Caucasian , or was he the first of a near east people from which present day, Jews, Arabs and some others have derived. Remember, Adam was a unique person who could have lived only once"

The above reference gives more details of human origin from a single source. "This hypothesis was developed from pioneering work of mitochondrial DNA published by Wilson and search in 1987. According to them and subsequent researches, there is evidence that all human beings have descended from one common female genotype who lived in Africa at 200000 to 100000 years ago"[24]

All the above references throw light on the conclusion that, Adam was the first of all individuals of '*Homo sapiens*' species 'sapiens' was similar to other human 'species, but exceptional in intelligence. This intelligence might have inherited in him by a mutation, when God transformed him to a "living soul" (Genesis 2:7)[25]

1,3,5-18,20,21&25 All are from 'Holy Bible' NSRV. Catholic Edn. pub. Theological publications in India. Bangalore. 2007.

2. JEDP 'Sources in the pentateuch' 2008. Google en. wikipedia.org/ ...Documentary hypothesis-By Dennis Bratcher. 'J' was used for Jehova, 'E' for Elohim both represent God, 'D' for Deuteronomy and 'P' for Priestly.

In brief the first five books of the Bible were not written entirely by Moses who died in 1451 B.C.

4. The Holy Bible King James Version. American Bible Society NY.ABS 1959.

19. 'Malayala Manorama' Daily Dt. 30-04-2008. Kottayam publication. pp 19. col.1.

22. "Creation and Evolution" yahoo.com. www.asa3.org/ASA/topics/Evolution/

index.html. 64k- cached. “Theological implication of an Evolving Creation” by keith.B.Miller. Science and creation Faith’ 9945. 150-160 (1993).

23. ‘Creation/Evolution’- ‘In search of Historical Adam” part-I By Dick Fischer. Arlington VA 22205. From PSCCF 45. (1993)-241. yahoo.com.

24. “Creation science, Intelligent Design and Evolution” Google.com wikichristian (wilson et al 1985)- Mitochondrial DNA. wikichristian.org/.../creation science intelligent design and evolution.

CHAPTER - 8

ISOLATION AND SPECIATION

8-1 ADAM-THE FIRST INDIVIDUAL OF *Homo sapiens*

Evolutionary theory states that when the animals and plants multiply, naturally they will spread for want of space and food. This phenomenon took place from the origin of first plants and animals. This is true with human beings also. ".....and from there the Lord scattered them abroad over the face of all the earth" (Genesis 11:9) [1]. The spreading is a part of Evolution. Due to increase in number, the spreading to better environment is quite natural. When more and more spreading occurs, there may be different minor groups as the groups will get chance to get isolated. Whenever, there is isolation, it will lead to speciation. Due to isolation, firstly different varieties of organisms will be formed, then the varieties may develop to new subspecies and the subspecies will be changed to species. What is the meaning of species?. Species is a group of individuals of plants or animals which are reproductively isolated from similar groups. The members of the species will have common hereditary characters and the members are capable of reproduction among the individuals. The recent definition of species is; "A FUNDAMENTAL CATEGORY OF TAXONOMIC CLASSIFICATION RANKING, BELOW A GENUS OR SUB GENUS AND CONSISTING RELATED ORGANISMS CAPABLE OF FULL VIABLE INTERBREEDING." The formation of different species is possible in due course of time. In some cases, new species will be resulted by thousands of years. When species are similar, they may be grouped into one genus. Different genera when have common characters, may be included in one family, similarly common families are in one order, similar orders in one class and similar classes in one phylum. All animals are divided to different phyla. This is zoological classification of animals.

Another possibility of new species is in another way. If one individual in a species has undergone mutation, and then mutated character is retained in the successive generations, the following individuals after a few generations will be the member of a new species. Mutation is a sudden change occurred in some of the reproductive cells of an individual, and when this individual reproduces, the new character will pass to the offspring's. In successive generations, they will form as a separate group with individuals who can reproduce themselves only. The occurring of mutations has been recognized scientifically.

The author of this thesis envisages that when God breathed his spirit to Adam, Adam might have received special inheritable characters. God's formation of Adam may be interpreted as "mutation took place in Adam". All children born to Adam might have retained this new character and they became member of a new species, zoologically man is called *Homo sapiens*. 'Homo' is the genus name and 'sapiens' is the species name.

"FROM ONE ANCESTOR HE MADE ALL NATIONS TO INHABIT THE WHOLE EARTH AND HE ALLOTTED THE TIMES OF THEIR EXISTENCE.....' (Acts 17:26)[2] Adam may be considered as the first individual of *Homo sapiens*. Other individuals existed at the time of Adam, might belong to a different species of the genus "Homo"

When Adam existed as a member of *Homo sapiens*, other human beings might also have existed in the form of other species or another subspecies of *Homo sapiens*. The members of the different sub species may interbreed.

In short I want to say that, in course of human origin, many sub species of *Homo sapiens* might have existed in the different parts of the world. Adam was subjected to mutation. This might have been possible by the interference of God. God wanted a new species of Homo (*Homo sapiens sapiens*) and Adam was the father of this sub species, This sub species got more special intelligence than all other sub species who existed by that time. Adam and his descendants might have been named as God's Children...., all others are human beings, but belonged to different groups. A verse in genesis supports my view. (Gen.6:1).

8.2 ADAM'S DESCENDANTS

"When people began to multiply on the face of the ground, and daughters were born to them, the sons of God saw that they were fair, and they took wives for themselves of all that they chose" (Gen. 6:1).[3] Here I want to interpret, the sons of God as the descendants of Adam and they engaged in marriages with other people (took wives of themselves of all that they choose). Here I want to interpret again that Adam's descendants (God's children- "*Homo sapiens sapiens*") mingled with other sub species (other sub species of Homo sapiens-people belonged to other descendants previous to Adam). There were other people other than Adam's descendants. This view can be supported from the Bible itself. "Cain said to the Lord, my punishment is greater than I can bear today. You have driven me away from the soil, and I shall be hidden from your face. I shall be a fugitive and a wanderer on the earth, and any one who meets me may kill me" (Genesis 4:13)[4] It is clear that in addition to Adam and his children Cain & Abel, there

might have existed people whom Cain feared, would kill him. These people, other than Adam's descendants, might belong to other subspecies of *Homo sapiens*. The following verse gives additional proof to this hypothesis.

"Then the Lord said to him not so who ever kills Cain will suffer sevenfold vengeance. And Lord put a mark on Cain, so that no one who came upon him would kill him" (Gen. 4:15).[5] Lord's words prove that people existed other than Adam's family.

"Cain knew his wife" (Gen. 4:17)[6]. Who was Cain's wife? There is no possibility that it is his sister. His wife might belong to other people, other than Adams descendants. Here the "sons of God" (Gen. 6:2) belong to the descendants of Adam and "they took wives" (Gen. 6:2) [7] from the other group of people other than Adam's descendants. It is reasonable to believe that Adam and his descendants gave way to the present Human beings (*Homo sapiens sapiens*) Science has proved, that many human species existed before *Homo sapiens*. Cain built a city (Gen. 4:17) [8] A man alone cannot build a city. There might be other people to help Cain.

It is up to God to make mutations and other changes in his creation. All species of plants and animals have existed on this earth, as God created to form new species (Gen. 1:11)[9]. The word "kind" may be different species. (Gen 1: 11-12).[10] All new species occurred on the face of the earth (in different plant and animal groups) are due to the interference of God from time to time. God is a working God; He does not sit idle. He renews everything (Ps 104:29-30).[11] "I am making all things new" (Rev. 21:5).[12] John 5:17[13] says "my father still working and I also am working." After the creation of this Universe, he modifies everything according to his wish from time to time. This causes the formation of new species from time to time.

The present day human beings are all descendants of Adam. Now the human beings are seen in different groups: Mongoloids (Yellowish colour, not fully opened eyes, straight hair etc), The Africans (Black in colour, thick lips. Curly hair), The Caucasians (white coloured people, straight hair, not with thick lips etc.), The red Indians (colour reddish, projecting cheek straight hair etc. ;) and many different anthropological varieties of human beings with distinct physical differences. To which of this group Adam belong is difficult to answer. The present human varieties are due to evolutionary process, but these changes are due to operation of God. In future when a time comes the interbreeding will be impossible between the human groups, then the species may be divided into different subspecies. In due course these subspecies will become separate species

God created human beings the last of all creations. God created all lower animals and plants first, then the higher animals, invertebrates, then fishes and amphibians and creeping animals. The land animals like birds and mammals were created later. The sequence is scientific and the same is noted in Bible also. The Bible is written by His Spirit. What actually happened was revealed to the writers or redactors of Bible before they wrote the different books of Bible. The sequence of creation is scientific. Refer to the following examples.

Gen 7:8[14] ".....of clean beasts and of beasts that are not clean, and of fowls and of every thing that creepeth upon the earth." Here beasts stand for mammals, then fowls for all birds then creeping animals for reptiles. Science classifies animals like this INVERTEBRATES, FISHES, AMPHIBIANS, REPTILES, BIRDS AND MAMMALS. Mammals are at the top and they evolved last. Of all the mammals, man evolved last. The Bible says, the man is created and science says that man is evolved last of all creatures. If Bible has recorded man's creation on the first day and all plants last, we may say that evolutionary theory cannot have gone together with creation story.

8.3 JESUS CHRIST IN THE LIGHT OF EVOLUTION

The Biblical writers of ancient time could not have known the modern scientific theory of evolution. Nevertheless, there is a story of Jacob's ladder which suggests the idea of evolution. (Gen. 28:10-22)[15].

Jacob dreamt of a ladder that went from earth to Heaven. At the top of the ladder, the last step opens to Heaven to God's presence. Angels were climbing up and down the ladder. Religious thinkers compare this ladder with Jesus Christ. In science ladder is often used to represent the process of evolution. Each rung of the ladder represents the evolutionary stages. The Bible refers to Jesus Christ as "the first born of every creature" (Colossians 1:15).[16] When both the first step and last step represents Jesus Christ, as evolutionary stages, the entire ladder is equal to evolution. Jesus is the way (steps of the ladder), the truth (science) the life (the original DNA molecule) and resurrection (last stage of the evolution) and evolution will continue till the last of all creations evolve to the stage of God. By chance, the DNA molecule resembles a helix[17] or Jacob's ladder or Jesus Christ. We must patiently climb the ladder of scientific evolution, rung by rung, improving ourselves one step at a time, until we reach our goal. Evolution is a kind of escalator that would carry humans to ever higher good, until eventually they attained spiritual immortality.

Prof. D.C. Spanner[18] says. "My own testimony is that the things the Bible speaks of are more significant and exciting than even those of the most sensational science. The first and larger task must be to examine what the Bible does teach, and the second and smaller must be to look at the neo-Darwinism Theory and see where any 'interdisciplinary' conflicts lie."

1-16 All are from 'Holy Bible' NSRV. Catholic Edn. pub. Theological publications in India. Bangalore. 2007.

17. DNA is in the form of two strands of nucleotides; the two strands are interconnected. The entire DNA molecule model look like a helix. This model was presented by Watson and Crick.

18. "Creation and Evolution" by prof. D.C. Spanner 2004 Google. www.creationandevolution.co.uk/-

CHAPTER - 9

CONCLUSION

In the previous chapters, an attempt is made to explain the theory of Evolution in the light of Biblical understanding of creation. The Bible is written by many authors, not to explain the theory of Evolution, but to establish God's providence to His creations. The Evolutionary theory is only a presumption and explains the possibility of the emergence of each species of different organisms and the gradual evolution of organisms from simple to complex forms. The theory of Natural selection by Darwin supports the theory of Evolution with more convincing evidences from different sources. The theory of Natural Selection by Darwin has been modified by Neo-Darwinian scientists. In science any theory may be modified or even changed when more convincing theories arise. The theory of Natural Selection also may be modified or accepted or discarded when more convincing theories are presented in future. What is written in the Bible will not be changed or not allowed to change because the words are directly presented through His prophets. (Rev. 22:18) [1].

Man invented Car, T.V. and many complicated machines. When they were invented, in the beginning they were less complicated than later invented ones. A simple answer to this is that Master Designer gave man his share of intelligence and ability to create, in the same way as God created organisms. Man is generally called as a rational animal. For example a television when invented produced black and white pictures only. Colour television came to existence later. All inventions are like this from simple to complex. Why is it so? When The Master Designer created organisms in the beginning they were unable to analyse colour vision; they were without the ability to recognise different colours. The animals created on the fifth and sixth day, or only certain mammals and birds have got the ability to recognise different colours. What ever man creates, will be simple in the beginning and later more complicated forms will be invented, like the works of the Master Designer, or God. Many similar examples can be cited. Why is this so? Because man was created in the image of God. (Gen. 1:27) [2].

We cannot trace all evidences of evolution from the Bible, because the Bible was not written to support Evolutionary theory. Nothing was known about Evolution to the redactors of Bible in those days.

The Master Designer or God has not revealed all the truth behind creation and His laws of Nature. The Master Designer or God has not revealed all

secrets of the Universe to his prophets. God has revealed only certain truth to mankind. The writer of Deuteronomy points out this character of God. "The secret things belong to Lord our God, but the revealed things belong to us and to our children forever, to observe all the words of this law." (Deut 29:29).[3] Even King Solomon, who received intelligence and wisdom from God, mentions that "it is the glory of God to conceal things" (prov. 25:2)[4]. "Do you know the ordinances of heaven" (Job. 38:33).[5]

This thesis evaluate the theory of Evolution in the light of Biblical understanding or secrets revealed about creation, even though God has concealed many truths to man. Man need not be anxious of the unknown or unrevealed truth or man need not be worried to many of the mysteries of the Universe. Let us hope that God will reveal through scientists or His prophets, many things in future.

Even Darwin has pointed out difficulties in his theory of Natural Selection ("The origin of species" by Charles Darwin-chapter 6 "difficulties on theory").[6] Even though Charles Darwin's theory on Natural selection and additional support from Neo-Darwinian scientists, the evolution theory leaves many uncleared doubts. Only one or two doubts are presented here. Who designed the DNA molecule? (DNA molecule is double helix of different bases, phosphate and sugar with some protein molecules). A DNA cannot function without protein molecule. Which one, the DNA molecule or protein molecule originated first? Scientists are of the opinion that amino acids formed first by chance. A protein molecule is the polymer of many, amino acids in a particular sequence. The 'triplet code'[7] conveys instructions to the different amino acids and assembles them in the required sequence. At present there are 24 different types of amino acids. The combination of amino acids in a particular sequence and polymerise them to a particular protein. There are thousands and thousands of different types of protein, with the combination of these 24 different types of amino acids. DNA is the master molecule which controls all activity inside each cell. If the triplet code gives wrong direction, the result is that either no protein will be synthesised or a wrong protein will be synthesised. The sequence of amino acids in a protein is pre-coded in the DNA molecule. Who designed 'triplet' code of DNA? A non living 'Nature' cannot make mathematical design.

It may be mentioned that one more fact, that the Master Designer did not forget to create "microbes". The duty of microbes is to allow the decay of all dead organisms; otherwise all dead organisms could have remained on the surface of earth. The decomposition and decay of all dead organisms are well planned and well designed for the existence of new organisms. The

non-living Nature may not make any such design. There must be a Master-Designer behind all these truths. We cannot imagine a world without decay and decomposition. The Bible states the process of decomposition. (Ecc. 12:7, 3:20-21, Gen. 2:7, Psalm. 91:3, Job 34: 14-15).[8]

Master-Designer has planned Evolution and Evolution has happened, Evolution is still happening and Evolution will happen in future also, because God still works (John 5:7).[9] There may be new species of human beings, plants and animals, (Rev. 21:5 and also in Ephes. 4:23. Rom. 12:2, 2 cor. 4:16, Eze. 36:26)[10]

From the very beginning, each cell of each organism, the body of plants and animals, the position of different stars in the sky all have been well planned and well designed and working in obedience to certain rules and laws. (Job 38:33)[11]. These laws are not planned or designed by non-living nature or it did not happen by chance. The behaviour, structure, body plan, colour patterns, adaptations to environment, instinct of different organisms are all well designed by a Master Designer or God. Evolutionists say that all these are due to mere chance, and creationists believe that there must be a Master Designer.

After the creations of all organisms, God created intelligent man, who was free to opt good or bad. God made him superior to all organisms and a duty of stewardship was given to him to look after all other organisms created by God. God gave him the land to cultivate and not to pollute or destroy. God has done this, because he wanted to sustain His creations including non-living land, atmosphere and living organisms. God gave him authority to supervise over everything (Gen. 1:27-28)[12]. But the disobedient man proved that he is unfit to sustain what God has entrusted. The land and atmosphere have been polluted already and man is continuing the activity of polluting, even now. This activity of man has already been prophesised by prophets especially by Isaiah (Is. 24: 4-6, 18-20, 65:17, 66:22-23)[13] , (Jer. 12:4)[14]

God gave His commandments to man, through Moses, so that man may keep morality and uphold Truth, Justice and Peace. Unfortunately man deviated from God's plan and purpose. A non-living nature or Earth need not teach man to uphold the Truth, Morality, Justice and Peace. The non-living Nature or Earth has no purpose or plan in the future of organisms. In nature everything is due to chance only. Only a living Master Mind or Master Designer or God requires morality, justice, truth and Peace to be maintained.

The Ten-Commandments make the idea clear.

When God discloses, prophets are able to foretell future events. Best example is the prophecy about the birth of Jesus Christ. In 'Nature' everything is by chance. No possibility for prophecy.

The aim of the thesis is to educate non-believers so that they may think of the necessity of a living God and to educate the believers that the possibility of creation is in the line of evolution.

I may conclude that the rivalry of evolutionists and creationists may be reduced and they may reach together to the conclusion that both are compatible. This may lead to develop consensus between creationists and evolutionists.

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PART TWO

SPACE, TIME AND MATTER

(Scientific explanations are evaluated in the light of Biblical truths)

CONTENTS

1.	**INTRODUCTION**		64
2.	**SPACE**		66
	2.1	Length and width of the Universe/Space	66
	2.2	Does life exist in any other planet?	67
	2.3	The Big-Bang Theory & Origin of the Universe	67
	2.4	"Master Mind" or "Super Intelligence"	69
	2.5	Physical Laws given by God	71
	2.6	Why is God "Super Intelligent?"	72
	2.7	What Bible says about space-time?	74
		(a) Scientific view of space – time	75
		(b) Biblical view of space-time	75
	2.8	Expansion of Universe is described in The Holy Bible	76
3.	**TIME**		78
	3.1	Scientific view of Time	78
	3.2	Time is under Gods control	78
	3.3	Division of Time according to Biblical evidences	80
4.	**MATTER**		90
	4.1	Introduction	90
	4.2	The structure of sub-atomic particles	91
	4.3	Higgs-boson-The building blocks of Universe	91
	4.4	Anti-Matter	92
	4.5	Dark Matter, Dark Energy and Anti- matter	92
	4.6	Evidences from Bible about the Invisible Matter	93
	4.7	Black hole	95
5.	**IS GOD ENERGY?**		97
	5.1	Holy Spirit is Energy	98

5.2 God is Light Energy 98
5.3 God is Heat Energy 99
5.4 God is Sound Energy 99
5.5 The Spirit of God is Electrical Energy 100
5.6 God is Gravitational Energy 100
5.7 Transformation of Energy 101
5.8 God and Energy both are Invisible 102
5.9 God beyond Time and Space 103
6. CONCLUSION 105
6.1 Higgs–Boson particles are not the final answer 105
6.2 There is only one answer, that answer is God 106
BIBLIOGRAPHY 110

CHAPTER - 1

INTRODUCTION

Scientific explanations about space, time and matter may not be complete. When new theories are explained, old theories will fade away. Biblical truths are for ever, not to be changed. Jesus told "Heaven and Earth will pass away, but my words will not pass away" (Mark 13:31) (The Holy Bible RSV edition).

With the help of modern telescopes like Hubble Space Telescope and Spitzer Space Telescope, scientists are capable of studying distant stars and their constellations and different Galaxies." Renowned theoretical physicist Stephen Hawking has launched the most powerful shared-memory Super- Computer in Europe. Stephen Hawking anticipates that the 'Cosmos Super-Computer' Manufactured by SGI and the first system of its kind, will open up new windows on the Universe"[1]

Universe is full of wonders and full of mysteries It shows the glory of God. We can see countless number of stars in the clear sky during night time. God has created the Universe and the Earth for man. Our brain is unable to describe the size, magnitude and mystery of the Universe. The Earth in the Universe is only a speck and the living organisms on the Earth are still smaller and negligible; nevertheless God loves man and all His creations

The nursery rhyme:

Twinkle twinkle little star
How I wonder what you are
Up above the world so high
Like a diamond in the sky

is a beautiful poem; this rhyme represents the Space, Time, Matter and mysteries of the Universe

The Universe is a wonderful Universe, not only to a child but also to scientists. Even after millions of years, The Universe will remain as a wonder with full of mysteries. Many mysteries of the Universe are revealed by scientists but the unrevealed mysteries are more than the revealed mysteries

In the following chapters an attempt is made to present and evaluate the scientific truths of Space Time and Matter in the light of truths hidden in the Holy Bible verses. More and more verses do still remain to be interpreted. Time will prove it.

Many wonders in the sky are not visible to human eye, but some unseen things are revealed by the human made wonderful telescopes. The books of the Holy Bible were written in a time when scientific knowledge was meagre. Even then many scientific truths are hidden in the Bible verses.

I have made an attempt to evaluate the facts of Space Matter, Antimatter, Dark matter, Energy, Dark energy, Stars, Black holes and Gravity with the truths hidden in some of the Bible verses. Certain points are described with imagination and exaggeration.

Everyday new information is added about the wonders of the Universe. Scientists are determined to find out the origin of matter, time and space, and in short the origin of Universe. More& more knowledge is added on everyday. Uninterrupted Bible verses also may be explained with new meaning in future.

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1. (The Times of India - Daily . published from Banglore. dt. 23-07-2012 page-9, column -9 and Malayala Manorama. Daily . Published from Kottayam dt. 23-07-2012, page - 16).

CHAPTER - 2

SPACE

The Earth on which we live is a part of the Solar System. The Earth and other planets are moving around the sun. Sun is a star and Sun is the nearest star to Earth. Many stars constitute a constellation or galaxy. A Constellation is a group of stars forming a recognised pattern and Galaxies are huge congregations of stars held together by force of gravity. There are about 1.3 trillion (about one lakh crores) galaxies in the visible Universe and each galaxy contain billions (about one thousand crores) of stars. There are 100 billion stars in the Milky Way that is our galaxy[1]. Bible says, there are innumerable or countless number of stars in the heaven. According to Bible, God created Heaven (space) and Earth. All stars in the Heaven are hosts of Heaven. (Gen 1:1), "Just as the host of heaven cannot be numbered, and the sands of the sea cannot be measured....." (Jeremiah 33:22) (The Holy Bible NRSV Edition) "..... as many as the stars of the heaven and as the innumerable grains of sand by the seashore." (Hebrew 11:12) (NRSV Bible)

There are many galaxies which are far away and the light rays have not yet reached this Earth and they are not yet studied even with powerful telescopes.

2.1 Length and width of the universe/space

The distance of the stars and galaxies are not measured by ordinary measurements. The distance is studied by measuring, the distance of light travelled in a second. A light year is the distance covered by light in one year, in vacuum, travelling at a speed of 299792.5km per second[2]. This distance is equal to nearly 6 million miles[3].

Our Milky Way is one lakh light years across.[4]

From the above statements we can presume how wide the space is. Nobody knows how wide the Universe is. Nobody can reach the end of the Universe (if there is an end) in his life time even if he travels in the speed of light, and nobody knows the space has an end or not. We have to presume that space is infinite.

Bible says that man cannot find the ends of the Universe by research. "Like the Heavens (space) for height, like the earth for depth, so the mind of kings is unsearchable" (Proverbs 25:3). The width and length and the height and depth of the heaven (space) are unsearchable or cannot be found by research that means Space is infinite. "who has measured ..... and marked

off heavens with a span" (Isaiah 40:12) (NRSV Bible). "Just as the host (stars) of heaven (space) cannot be numbered" (Jeremiah 33:22) (NRSV Bible) "as many stars of heaven (Hebrew 11:12) (NRSV Bible)" "Look towards heaven, and count the stars, if you are able to count them" (Genesis 15:5) (NRSV Bible) There are many verses in Holy Bible showing the countless number of stars. From these one can assume the space is very wide. In science, space is meant in a different way. Science says time and space were formed from the Big-Bang onwards.

"In his theory of special relativity Einstein called the 4th dimension "time", but noted that "time" is inseparable from "space." Einstein described gravity as a bend in "space - time."

2.2 Does life exist in any other planet?

There is no evidence of life in any part of the Universe other than Earth. Outside the Solar System near the 'Red Dwarf star' there is a planet like Earth. The name given by the Scientists is 'Glies 163'. This was observed by the 'Harps Telescope' of the Southern Observatory of Europe. This planet is 49 light years away from Earth[5]. Scientists believe that there may be similar planets and more planets may have alien life[6]. "A super earth found that is just right to support life. It is 42 light years away from earth."[7].

Every day new discoveries are made about distant stars. Scientists could get a clear photograph of an 800 crore years earlier formed star, by Dark Energy Camera established Astronomical study centre at Chillie[8]. All the new discoveries show that the Universe is infinite and the width of space cannot be measured.

2.3 The Big-Bang Theory & The Origin of Universe

"The Big-Bang Theory is the prevailing cosmological model that explains the early development of the Universe. According to the Big-Bang Theory the Universe was once in an extremely hot and dense state which expanded rapidly. This rapid expansion caused the Universe to cool and resulted in its present continuously expanding state. The most recent measurements and observations are in agreement with a Big-Bang that would have occurred approximately 13.75 billion years ago which is thus considered the age of the Universe. According to the theory, after its initial expansion from a "Singularity", the Universe would have cooled sufficiently to allow energy to be converted into various sub-atomic particles including protons, neutrons and electrons. While protons and neutrons would have combined to form the first atomic nucleus, only a few minutes after the Big-Bang, it would then have taken thousands of years for electrons to combine with

them and create electrically neutral atoms. The first element produced would then be hydrogen, along with traces of helium and lithium. Giant clouds of these primordial elements would then coalesce through gravity to form stars, and galaxies and the heavier elements would be synthesised either with stars or during supernovae"[9].

The scientific explanation extracted from Wikipedia is given above. This passage explains how the Universe originated from a 'singularity'. Georges Lemaitre was a Roman Catholic Priest who first proposed the Big-Bang Theory and this theory was modified by many scientists. Instead of 'singularity' he used the term 'The Primeval Atom'. The above theory explains the origin of Universe, the origin of matter, the age of the Universe and space and time. Unfortunately, the theory cannot explain. (1) What was the state or stage of 'Primeval atom' or singularity before Big-Bang and the age of 'Primeval atom'? (2) From where the primeval atom originated? (3) How wide is space and what was there in the space before Big-Bang?

Even though Big-Bang Theory says, the space and time are inseparable and originated with the Big-Bang. This explanation is very difficult to understand.

Anyhow this theory explains the origin of matter, after the Big-Bang. "The Big-Bang Theory cannot and does not provide any explanation for such an initial condition; rather it describes and explains the general evolution of the Universe going forward from that point on. The Big-Bang Theory can be considered because this theory stated that "as the distance between galaxy clusters is increasing today, the theory states that everything was closer together in the past"[10].

The age of the Universe is studied scientifically by studying the oldest star clusters, 'White dwarfs' and by studying the age of the chemical elements"[11].

Science is a study based on experiments and theories arising from experimental results. When more accurate theories are presented, the old theory gives way to the new theory. The "Big-Chill" theory claims that "Big-Bang" is wrong and Big-Chill led to the birth of Universe. Physicists from the University of Melbourne and Royal Melbourne Institute of Technology have suggested that by investigating the cracks and crevices common to all crystal-including ice, our understanding of the nature of the Universe could be revolutionised"[12].

Bible says "For I, the Lord do not change" (Malachi 3:6) (NRSV BIBLE). The words of the Bible are not to be changed. The words are for ever. King

Soloman says "I know that what ever God does endures for ever; nothing can be added to it, nor anything taken from it, God has done this so that all should stand in awe before him". (Ecclesiastes 3:14) (NRSV Bible)

The Big-Bang Theory explains the origin of Universe. Bible says God's words created Heaven and Earth (Universe) why not the Big-Bang and the first verse of Genesis be compared? [13].

"As a theory relevant to the origin of the Universe, the Big-Bang has sufficient bearing on religion and philosophy. As a result, it has become one of the loveliest areas in the discourse between science and religion. Some believe the Big-Bang implies a creator while others argue that Big-Bang cosmology makes the notion of a creator superflous"[14].

The book "A brief History of Time" written by Stephen Hawking mentions that "The Catholic church on the other hand seized on the Big-Bang Model and in 1951 officially pronounced it to be in accordance with the Bible"[15].

Centre of the universe

Is there any centre in the Universe? When we study about "Big-Bang" we naturally think about an explosion, and the galaxies spreading from a centre. But scientists say that "The Big-Bang should not be visualised as an ordinary explosion. This universe is not expanding out from a centre into space, rather the whole Universe is expanding and it is doing so equally at all places.

The Big-Bang was an explosion of space, not an explosion in space. According to the "Standard Model", there was no space and time before the Big-Bang; we will have no real answer to the question where is the centre of the universe"[16].

In H. Bible the centre of the Universe is not mentioned anywhere. The centre of the world is shown in the following verses. Christ was born in the centre of the world i.e.; in Jerusalem "a blessing in the midst of the earth" (Isaiah 19:24) ".....I have set her in the centre of the nations ...." (Ezekiel 5:5)

2.4 "Master Mind" or "Super Intelligence"

One may believe that there is a creator of the Universe and "His Master mind" or "Super Intelligence" created this Universe according to His wish. The "Supreme Intelligence" is God. God does whatever he pleases (psalms 115:6, 135:6) (NRSV Bible) "Now faith is the assurance of things hoped for, the conviction of things not seen..... By faith we understand that the

worlds were prepared by the word of God, so that what is seen was made from things that are not visible" (Hebrew 11:1-3) (NRSV Bible)

If man was not evolved or created by God, there will not be anybody to ask the question, "How this universe came to existence?" Animals are not that intelligent to think about the origin of the Universe.

The Times of India daily writes a column "sacred-space". Stephen Hawking's statement about a creator was given in that column. "It is difficult to discuss the beginning of the Universe without mentioning the concept of God..... . It is quite possible that God acts in ways that cannot be described by scientific laws. But in that case one would just have to go by personal belief. By Stephen Hawking"[17]..

Another statement given along with this column, in the heading "Looking for God in the Lab" also gives some statements (column 3 & 4) "God is not proved objectively. What is proved objectively is the electron, the neutron, or proton. Nobody has yet seen electrons, neutrons, protons, but the scientists say that they are"[18].

A passage from the book "Going God's Way" is quoted below. "Dear Mr. Creator, will you please tell me what the Universe was made for? This Question was asked of God by the great naturalist and scientist Dr. George Washington Carvar, an outstanding Negro of South, who made a great contribution to the welfare of people. Dr. Carvar frequently talked to God, through the course of the day..... . This is the answer he had said, he received to this question about the Universe "You are asking something that is big for your finite mind to understand. Get down to your own level and ask a question whose answer will be with in you in your reach"[19]. God has not revealed all the secrets of the universe to us (Deuteronomy 29:29). He will reveal to us, more secrets through our scientists, in proper situations. We have to wait till then.

Who made God? How this Universe came to existence? How can God make Universe from nothing? (Ex-nihilo). If we believe in a God we have to believe that God is all powerful.

"At the moment of Big-Bang, matter and antimatter are thought to have existed in equal quantities. If that balance had persisted, the observable Universe we inhabit would never have come into being. For unknown reasons, nature seems to have a preference for matter. The antimatter is rare today. This asymmetry remains one of the greatest riddles in particle physics"[20]. We have to believe that God decided, whether the antimatter or matter should predominate. This shows the existence of a "Super

Intelligence" or "Master mind" or "God". God is all powerful. Many questions will get satisfactory answers, if we believe that there is a God who controls everything. He is invisible and cannot be seen with our ordinary physical sense organs. "It is he alone who has immortality and dwell in unapproachable light whom no one has ever seen or can see; to him be honour and eternal dominion. Amen" (1 Timothy 6:16) (NRSV Bible).

2.5 Physical Laws given by God

The galaxies and stars in the Universe, obey certain rules and principles which are analysed and explained by scientists. Scientists who do not believe in a Creator say that these rules and laws are not created or provided by anybody. The creationists believe that the rules and ordinances and statutes are by an "Intelligent Master Mind" or "Super Intelligence" that is God. "Do you know the ordinances of the Heavens? Can you establish their rule on the earth? (Job 38:33) The entire Universe is existing by obeying the rules of God.

The Halley's Bible shows certain references. "Who made God? Every Child asks this question. And no one can answer it. There are something's beyond us. We cannot conceive of the beginning of Time nor the end of Time, nor the boundaries of space. The world has been in existence, Always, or, it was made out of Nothing, One, or the other yet we can receive of neither..... could the inanimate create intelligence? In faith we accept as the ultimate in our thinking, a power higher than ourselves, God in hope that some day, in the beyond, we shall understand the mysteries of existence"[21].

Bible says "By the Word of the Lord, the heavens were made and all their hosts by the breath of his mouth" (Psalms 33:6) (NRSV Bible) Biblical heaven is to be interpreted as space, and hosts of heaven are, galaxies, stars and matter visible and invisible in the universe.

God has given certain ordinances, statutes, rules, laws and covenants, regarding the working of the universe. Man cannot change the above ordinances and regulations.

1. God allows the earth to stand on nothing

"He stretches out the Zaphon (north) over the empty place (void) and hang the earth upon nothing" (Job 26:7) (NRSV)

The chapter 26 of Job describes Gods laws.

2. Psalms chapter 119 describes His Law.

3. Man has disobeyed the laws and rules of God.

Therefore the earth is being polluted. As a result it affects all living things.

"The earth dries up and withers, the world languishes and withers, the heavens languish together with the earth. The earth lies polluted under its inhabitants, for they have transgressed the laws, violated the statutes, broken the everlasting covenant. Therefore a curse devours the earth and its inhabitants suffer for their guilt..... and few people are left" (Isaiah 24:4-5) (NRSV Bible) "How long the land will mourn and the grass of every field wither? For the wickedness of those who live in it the animals and the birds are swept away ...." (Jeremiah 12:4)

Law of God

"The law of the Lord is perfect" (Psalms 19:7)

"Wondrous things out of your Law" (Psalms 119:18), (Psalms 148:6).

Ordinance of God

"Do you know the ordinances of Heavens? Can you establish their rule on the earth" (Job 38:33)

"Thus says the Lord, who gives the sun for light by day and the fixed order of the moon and the stars for light by night, who stirs up the sea so that its waves roar - the Lord of hosts is his name" (Jeremiah 31:35)

"The ordinances of the Lord are true" (Psalms 19:9)

"Thus says the Lord; only if I had not established my covenant with day and night and the ordinances of heaven and earth" (Jeremiah 33:25)

"Ever since the days of your ancestors you have turned aside from my statutes and have not kept them" (Malachi 3:7)

Statutes

"Percepts of Lord are right ..... the commandment of the Lord is clear" (Psalms 19:8)

"..... they may follow my statutes and keep my ordinances and obey them" (Ezekiel 11:20)

2.6 Why is God Super Intelligent?

God asks many questions to man and give many statements in the Bible and from these statements we have to presume that He is above all, some of the verses are given below. All references are from NRSV Bible.

1. "He has made everything suitable for its time, moreover, he has put a sense of past and future into their minds, yet they cannot find out what God has done from the beginning to the end" (Eccl 3:11)

2. "It is the glory of God to conceal things" (Proverbs 25:2)

3. Jesus Christ is the same of yesterday and today and forever (Hebrew 13:8)

4. "Without father without mother without genealogy having neither beginning of days nor end of life." (Hebrew 7:3)

5. "...and there is no other God besides me..... there is no one besides me....., for I am God & there is no other" (Isaiah 45:21-22).

"So that they may know, from the rising of the sun and from the west, that there is no one besides me. I am the Lord and there is no other" (Isaiah 45:6)

(He is God) "For thus says the Lord, who created the Heavens; the earth and made it.... he did not create it a chaos; he formed it to be inhabited, I am the Lord and there is no other" (Isaiah 45:18)

"Remember former things of old; for I am God and there is no other, I am God and there is none like me" (Isaiah 46:9)

"For the Lord of hosts has planned and who will annul it? His hand is stretched out and who will turn it back (Isaiah 14:27)

"I am God and also hence forth I am he; there is no one who can deliver from my hand; I walk who can hinder it? (Isaiah 43:13-14)

"Before me no God has formed, nor shall there be any after me" (Isaiah 43:10).

"I am the Lord, who made all things, who alone stretched out the heavens, who by myself spread out the earth" (Isaiah 44:24)

"I am the first and I am the last and besides me there is no God..... Who is like me, Let them proclaim it let them declare and set it forth before me who has announced from of old the things to come? Let them tell us, what is yet to be? (Isaiah 44:7)

6. "He is before all things and in him all things hold together" (Colossians 1:17)

7. Who does great things beyond understanding and marvelous things without number? (Job 9:10)

"Who can stop him? Who will say to him, What are you doing?" (Job 9:12)

8. ..... who has preceded Me, that I should pay him everything under Heaven everything is mine (Job 41:11) This verse is from King James Version. In NRSV the meaning is different.

9. "To the King of the ages immortal, invisible, the only God....." (1Thimothy 1:17)

10. "I am the Alpha and the Omega says the Lord God, who is and who was and who is to come, the Almighty" (Revelations 1:8)

"I am the Alpha and the Omega the first and the last, the beginning and the end." (Revelations 22:13)

11. "The Secret things belong to the Lord our God, but the things that are revealed belong to us, and to our children for ever, to observe all the words of this law (Deuteronomy 29:29), "I, even I, am he; there is no god besides me" (Deuteronomy 32:39)

12. "God created human kind in his image in the image of God he created than male and female he created them". (Genesis 1:27) "You have made them for a little while lower than the angels; you have crowned him with glory and honour" (Hebrew 2:7) "Yet you have made them a little lower than God, and crowned them with glory and honour" (Psalms 8:5) "Then the Lord God said see, the man has become like one of us, knowing good and evil....." (Genesis 3:22). In the above verses, it is clear that God is superior to man. He is intelligent and with his intelligence or wisdom he created the heavens and Earth. Man is inferior to God and Gods' Angels. "The Pharsees came and began to argue with him, asking him for a sign from heaven (space) to test him" (Mark 8:11) But Jesus did not obey their demand. Again in another incident shown in Acts shows that Lord God is the Supreme Authority of the Space & Time. "He replied, it is not for you to know times or periods that the Father has set by his own authority" (Acts 1:6) God is super intelligent and created the Universe with his wisdom and introduced Certain Laws, ordinances, statutes, rules regarding the working of the Universe. The verse in John 5:17 and Isaiah 43:13-14 shows that God maintains the Law and the working of the universe. "My Father is still working" (John 5:17), I work, who can hinder it" (Isaiah 43:13).

2.7 What Bible says about space-time?

2.7 (a) Scientific view of space - time

Science says space and time are formed together at the time of Big-Bang. Scientists are of the opinion that space and time cannot be separated, both are a single unit. Stephen Hawking states that we must accept that time is not completely separate from and independent of space, but is combined with it to form an object called "Space-Time"[22].

"Light travels through the space in the form of photons. Mass and Energy are equivalent and interchangeable properties. Matter can be converted into energy or E=mc2. Albert Einstein theory changed our concepts of space-time"[23].

"According to Einstein's general theory of relativity of the Big-Bang represents Beginning, the grand event at which not only matter but space-time itself was born"

There are Scientists who believe that "the Universe collapsed then bounded as the Big-Bang". "According to their research (Fraser Cain on May 20th) there was contracting Universe with similar space-time Geometry to our expanding Universe"[24].

2.7 (b) Biblical view of space-time

Even though Bible mentions space and time together, it may not be similar to scientific way of explanations. God created space. Nobody knows when God created space. God created time also. Time and space are under the custody of God.

Some statements in the Bible agree to the space-time combination.

First verse in Bible mentions Space and Time together. "In the beginning (about time) God created Heaven and Earth (space & matter)" (Genesis 1:1). Here "in the beginning" represents "time" and "heavens" represents the "space". Acts 17:26 says, "and he allotted the times of their existence and boundaries of the places where they would live" here boundary definitely represents "space" and time represents "time". Some verses from "the letter to the Hebrews" are also giving light to this statement. "In the beginning (about time) Lord, you founded the earth and the heavens (space) are the work of your hands ..... . But you are the same, and your years will never end." (about time) (Hebrew 1:10-12) Here heavens for space and years for time may be represented. Scientific explanation of time is that space & time will end with Big-Crunch. Bible says "Years will not end" that means time is infinite. Many verses in Holy Bible describe that many things will last "for ever or many things are "everlasting" or "eternal". All these words show that time is infinite. "For ask now about former ages (about time) long

before you own, ever since the day that God created (about time) human beings on the earth. Ask from one end of heaven (is there any boundary?) to the other; has anything so great as this ever happened or has its like ever been heard of?" (Deuteronomy 4:32) (King James Version) In KJV Bible "One side of heavens" is used instead of "one end of heaven". Bible verses like "one side" or "end of heaven" means, the visible side of Universe. Bible also does not mention the size of the Universe or how far, heaven (space) is large. Scientific view is different from Biblical view. As per Bible, we understand that time is infinite and it is under the custody of God. Similarly the space is also under the authority of the God. "Renowned astronomer and Nobel laureate Brian P. Schmidt predicts all galaxies will fade away except the Milky-Way. He is of the opinion that "Dark-Energy" makes more space and more space makes more dark-energy, which then make more space"[25].

2.8 Expansion of Universe is described in Holy Bible

Scientists say that the Universe is expanding and this expansion may be due to the Big-Bang. They observe that the star constellations are widening. This view may be explained with some of the verses in Bible. Isaiah 40:22 & 44:24 says "..... who stretches out the heavens (universe-space) like curtain. The word "Stretches" coincide with the expansion of the Universe. Job 26:7 says "He stretches out the north over the void and hangs the earth upon nothing". "It was my hands that stretched out the heavens" (Isaiah 45:12) and I commanded all their host". These hosts are the stars and all other objects of heaven (space) (Isaiah 45:12) "Who alone stretched the heaven....." (Job 9:8) and "Who made the Bear (a constellation) and Orion (a constellation) the Pleiades (a constellation) and the chambers of the south" (Job 9:9-10).

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CHAPTER - 3

TIME

3.1 Scientific view of Time

Many scientists believe that time has a beginning and time started with Big-Bang. Many argue that time is infinite; time has no beginning and has no end.

Scientists are strongly supporting the view that Universe has a beginning and the Universe is expanding since the beginning of the Universe. The Universe started from a Big- Bang and the expansion observed in the star constellations and galaxies support the view of a Big-Bang. The Universe was in the form of a 'Primeval atom' or in the form of a 'singularity'. The Universe will continue its expansion for many million years. After that the expansion will be reduced and Universe will begin to contract to its original "singularity" and this is called a "Big-Crunch". There are scientists with different views regarding the "Primeval-atom" and "Big-Crunch" hypothesis. Scientists are of the opinion that "space-time" started with 'Big-Bang' and will end with "Big-Crunch". Bible also says the end of the Universe (Mathew 24:35-36, 2 Peter 3:10-11) (NRSV Bible)

Stephen Hawking says "The idea that space and time may form a closed surface without boundary also has profound implications for the role of God in affairs of Universe. With the success of scientific theories in describing events most people have come to believe that God allows the Universe to evolve according to a set of Laws and does not intervene in the Universe to break these Laws. How ever the Laws do not tell us what the Universe should have looked like when it started it would still up to God to wind up the clockwise and choose how to start off. So long as the Universe had a beginning, we would suppose it had a Creator. But if the Universe really completely self contained, having no boundaries or edge; it would have neither beginning nor end; it would simply be. What then place for a Creator?"[1].

H. Bible teaches us that after the end of this Universe, the time will persist even after Jesus Christ's second coming (Revelations 21:1-27, 21:6 and Isaiah 60:19-20 NRSV Bible)

3.2 Time is under God's control

We do not know the beginning and end of the time; only God knows. God is the custodian of the 'time' "And he said unto them, it is not for you

to know the times or the seasons, which the Father has put in his own power". (Acts 1:7 NRSV Bible) Only God can change the structure of "Time" "He changes times and seasons" (Daniel 21:21 NRSV Bible)

God has extended the life time of King Hiskiah (2 Chronicles 32:24-33, 2 Kings 20:1-12, Isaiah 38: 1-5) As per the request of Joshua the sun and moon did not move. God controlled time. (Joshua 10:12-13 NRSV Bible) All these show that God can control or change time because He is the authority of the time.

The Evil-Spirit, Satan had tried to change the rules regarding the "time". "He (Satan) rises against God, who is the complete authority of space and time of the Universe". He (Satan) shall speak great words against the Most High, and shall attempt to change the sacred seasons and the law; and they shall be given into his power for a time, two times and half a time" (Daniel 7:25). But God will punish Satan in the end. "Then the court shall sit in judgement and his (Satan's) dominion shall be taken away to be consumed and totally destroyed (Daniel 7:26 NRSV Bible). From the above statement it is very clear that God is the supreme authority of time. Daniel chapter 12 and Revelations chapter 12 also say more about time ".....raised his right hand and his left hand towards heaven; And I heard him swear by the one who live for ever that it would for a time, two times and half a time" (Daniel 12:7 NRSV Bible) "..... She is nourished for a time and times, and a half a time" (Revelations 12:14).

The Universe was subjected to evolve since its origin. Science and Bible agree to the evolutionary changes of the Universe and the evolution of Man on the Earth (Evolution of Man & other organisms are described in the first part of this book). The evolution of the Universe and non-living matter is "inorganic evolution" and the evolution of organic material or the living organisms is the "organic evolution". We believe that God has no beginning and no end, God might have created time (and space also) according to his wish. God is beyond time and space.

God is Beyond Time and Space

There are different opinions about this topic that "God is beyond space and time".

"Augustian's (theologian) solution of God's relation to time that God is timeless, Christian theology usually declared that they are mysteries beyond human understanding. The statement of 2 Peter 3:8 makes this clear ".....that one day with Lord is as thousand years and a thousand year as one day". God has time, but His time is not our created time; God's uncreated time as

absolute time. It has neither beginning nor end. But it is not our created time Just as God created space (the Heavens and Earth) He created time. Newton's mistake was that he identified relative creative time with God's absolute time"[2].

There is another view that "God is out of space-time". The theory of constant expansion of any material requires the existence of space different from the material, unless, you cannot speak of the end imaginable boundary of the universe. All this discussion will clearly establish the existence of unimaginable region or God, beyond the universe"[3].

3.3 Division of Time according to Biblical evidences

It is reasonable to divide time for convenience of study, according to the evidences given by Bible. These divisions may be explained in five periods.

First Period is to be taken from the infinite till the creation of the Universe.

Second Period From the origin of the Universe after the creation of Heaven and Earth and till the period of the emergence of organisms on the face of the Earth.

Third Period from the origin of the organisms and till the Birth of Jesus Christ or Death of Jesus Christ.

Fourth Period From the death of Jesus Christ and till His Second Coming or the end of this Universe.

Fifth Period After the end of the Universe and final Judgement and to infinite period.

3.3 (a) The first period

God has no beginning and no end. God created time and nobody knows when a time was created. Time is under the custody of God. (Acts 1:7 NRSV Bible) and He changes times and seasons (Daniel 2:21 NRSV Bible).

The first verse of Bible says "In the beginning" Nobody knows when is "this beginning" or "before this beginning".

The following verses of the Bible give evidence of God's existence before creation of this Universe. All verses are from NRSV Bible.

a) "I am the Alpha and the Omega, says the Lord God, who is and who was and who is to come, the Almighty" (Revelations 1:8).

b) "Lord, God Almighty who are and who were ....." (Revelations 11:17)

c) "I am the Alpha and the Omega, the first and the last, the beginning and the end" (Revelations 22:12).

d) "Without father without mother without genealogy and having neither beginning of days (time) nor end of life" (Hebrew 7:3). This statement throws evidence of infinite time.

e) Who has preceded me, that I shall pay him everything. Under Heaven everything is mine (Job 41:11 King James Version). The meaning of this verse is different in NRSV Bible.

f) "In the beginning was word and the word was with God and the word was God" (John 1:1).

g) ".... The Father of lights with whom there is no variation or shadow due to change" (James 1:17).

h) "..... from everlasting to everlasting, you are God" (Psalms 90:2).

i) "The secret things belong to Lord our God, ..." (Deuteronomy 29:29).

j) "I am the first and last..... (Isaiah 44:6-8) "Before me no God was formed" (Isaiah 43:10-12).

k) "..... the first born of all children ..... He himself is before all things....." (Colossians 1:15-17).

3.3 (b) The Second Period

This period is to be counted from the Big-Bang till the origin of organisms. After the creation of Heaven, God created the Earth also; but the Earth was created much later of Big-Bang. The age of the Universe calculated according to Big-Bang Theory is about 13.75 billion years. That means, "the age of the Universe is the time elapsed since Big-Bang. The best current estimate of the age of the universe is 13.75 + 0.11 billion years"[4]. Big-Bang Theory explains that, time started only after Big-Bang. All the galaxies and star-constellations are not as old as the Universe. Recently some star-constellations are discovered and they are only one billion years old.

After the formation of many galaxies only, this earth was created. The first verse of Bible says God created Heaven first, and then only the earth was created. The first verse of the Bible about the creation of the Heaven and all heavenly bodies may be compared with Big-Bang. Therefore the second period may be only about 13 billion years (or 13.75 billion years). The age of the Earth is only 4.5 billion years[5]. The Earth was without form

and with a hot atmosphere, in the beginning .Only after many million of years, earth evolved to a form for the origin of organisms. “And the earth was without form, and void” because the atmosphere of the earth was getting cooled. This period may be a prolonged period. Bible does not mention how far this period was extended. (Gen 1:1-2 NRSV Bible).The Bible says the Universe was created in six days (Exodus 20:11 NRSV Bible and Genesis 1:1-12) There are difference of opinion regarding the extension of each day (Detailed explanation is given in the first part of this book) The following verses in the Bible gives additional support to prove the existence of the second period.

a) Ezekiel 28:11-19 Here a special period was mentioned. This period may be about the period before the creation of Adam. The fall of the Satan is explained here[6]. ‘Dake Bible’ again argues that when God created the Earth, the Earth was not suitable for life. Dake gives additional support to his argument.

b) “I looked on earth, and **lo**; it was waste and void and to the heavens, and they had no light” (Jeremiah 4:23). “I looked, and lo, there was no one at all” (Jeremiah 4:25) “I looked and lo, the fruitful land was a desert” (Jeremiah 4:26-27). The verse in Jeremiah 4:23 says “...and to the heavens, and they had no light” and this period must be immediately after the formation of earth, and when the atmosphere was opaque with dust and not cooled. Due to this, the light rays of sun & stars could not penetrate earth’s atmosphere. The Earth was in a molten stage. The Earth might have taken many years to get global shapes. Here the scientific explanations and the Biblical verses go together[7].

c) Isaiah also says a desolated land (Isaiah 24:12-13, 34:11, 41:28-29). This explanation also may be about the Earth before the emergence of organisms.

Scientists claim that the Earth is 4.5 billion (about45000 crore) years old and the origin of organisms in the face of the Earth is only 570 million years old. Therefore the Second Period will be equal to 1 lakh 3700 crore years approximately. The Bible does not say accurate number of years as scientists say. One important view is that God’s one day may extend to thousands and thousands of years, equal to human years. The Earth might have remained many billion years without proper shape and without any life[8]. Scientific studies show that the earth is 4.5 billion years old and the first organisms appeared in the face of the earth are only 570 million years ago. Some Theologians are of the opinion that emergence of man by creation is only

4000 years old. This calculation may not be correct. More details are given in the first part of this book.

3.3 (c) The Third Period

This period extends from the origin of organisms till the birth of Jesus Christ. According to H. Bible the origin of man i.e.; the creation of Adam was about 4000 years ago.

Science says about organic evolution and man's evolution. The evolution of man according to evolution theories may not be different from Biblical evaluation of evolution Refer, first part of this Book and 'Biblium Sasthravum' by the author.

The Bible says the birth of Jesus Christ was according to the predictions of the prophet. The period before the birth of Jesus Christ is known as "Before Christian Era" (BCE). The period from the origin of organisms till the Birth of Jesus Christ may be 57 crore and 2000 years, according to scientific explanations.

Jesus Christ was God. The human eyes witnessed Him when Jesus was incarnated on this Earth.

The following verses in the Bible may be referred to in this situation.

a) No one has ever seen God. It is God, the only son, who is close to the Father's heart, who has made him known" (John 1:18).

b) "In the beginning was the word..... Light" (John 1:1-18).

c) "Before Abraham, was I" (John 8:58).

d) "I had with thee before the world was" (John 17:5).

e) "for thou love me before the foundation of the world" (John 17:24).

f) "And he is before all things, and by him all things consist" (Col. 1:17).

g) He is the image of the invisible God, the first born of all creations, For in him all things in heaven and on earth were created, thing visible and invisible..... all things have been created through him and for him" (Col. 1:15-16)

h) "Ages ago I was set up at the first, before the beginning of the earth..... when there was no depths I was brought forth ....." (Proverbs 8:23-30).

i) "But when the fullness of time had come, God sent his son, born of a woman born under the law" (Galatians 4:4).

3.3 (d) The Fourth Period

This period is from the Ascension of Jesus Christ till his Second Coming "..... he blessed them, he withdrew from them, and was carried up into heaven" (Luke 24:51). The Bible does not mention the exact date of Jesus' Second Coming. It may extend from a few thousand to many crores of years. Jesus' Second Coming is connected with the end of the Universe. Scientists also believe that the Universe will end after a "Big-Crunch". Scientists do not say exactly, the number of years by which the Universe will come to an end.

The Scientific explanation given in Stephen Hawkang's Book in page-44 is summarised here.

a) Time begins with the Big-Bang from Primeval-atom or Singularity. Time taken so far is 13.75 billion years. Time & Space originate, with the Big-Bang.

b) Expansion of the universe; the universe is still expanding.

c) Maximum level of Universe's expansion.

d) Reverse of expansion i.e., reduction of the Universe towards the original Singularity or Primeval - atom or contraction of the Universe.

e) With a Big-Crunch Universe reaches to the original singularity. Here the space & time ends.

3.3 (e) Bible evidences about the end of the Universe

a) "Heaven and Earth will pass away" (Mark 13:24-31).

b) "The sun will be darkened, and the moon will not give light, and the stars will fall from the heaven; and the powers of the heaven will be shaken....." (Mathew 24:29).

c) "The elements will be dissolved with fire and the earth and the works that are upon it will be burned up" (2 Peter 3:10).

d) "..... for the heavens will vanish like smoke, the earth will wear out like a garment, and those who live on it will die like gnats....." (Isaiah 51: 6), (Jerem.12:9,10).

e) "..... they will perish but you remain; they will all wear out like clothing .... But you are the same and your years will never end" (Hebrew 1:11-12).

3.3 (f) Second Coming of Jesus in the end of time and final Judgement

a) "..... at the coming of our lord Jesus with all his saints" (1 Thess. 3:13).

b) "I am coming soon....." (Revelations 3:11-12, 22:7, 22:20).

c) "I will come again and will take you to myself....." (John 14: 3).

d) "..... you will see the son of Man seated at the right .... and coming with the clouds of heaven (Mark 14:62).

e) "The son of Man comes in his glory .... and he will separate people ....." (Mathew 25:31-36).

3.3 (g) Fullness of Time

In the Bible, 'Fullness of Time' is referred in different occasions. Jesus Christ was born when time reached its fullness. This may be the end of '3rd period' and the beginning of 4th period'. "But when the fullness of time had come, God sent his Son, born of a woman, born under the law in order to redeem those who were under the law so that we might receive adoption as children" (Galatians 4:4) In Mark 1:15 also 'the time is fulfilled' is given for the repentance of people. After the Ascension of Jesus Christ, his Second Coming is also the fullness of another time. "..... as a plan for the fullness of time, to gather up all things in him, things in heaven and things on earth" (Ephesians 1:10) (Daniel 12:1-13 may also be referred) In the following verses of Bible also the fullness of time is meant. eg; Hebrew 9:26, Mathew 13:49, 24:3, 28:28 and Daniel 7:28 and the Chapter 7 of Daniel is completely written for the fullness of time.

3.3 (h) The Fifth Period

H. Bible teaches that the time is not ending even after the second coming of Jesus Christ. The time continues even after the final Judgement". The time exists even after the end of universe and this period after the universe is the 'Fifth Period." Science does not agree to have time after a 'big-crunch'

Mathew 25:35 says that "Heaven and Earth will pass away, but my words will not pass away" (Refer Mark 13:31 also) Here the 'Heaven and Earth' will pass away, shows the end of the Universe or scientifically say about a "Big-Crunch". The next part of the verse "but my words will not pass away" means that the time will continue indefinitely even after the collapse of Universe. Stephen Hawking explains in his book 'A Brief History of Time' that the Universe originated with Big-Bang and the Universe was expanding since that day and the Universe is still expanding. The Big-Bang happened

about 13.75 billion years ago. The Expansion of the Universe will continue for some more billions of years and then, a stage will come that the expansion of the Universe will be reduced and stopped and then the Universe will be contracting to the "Primeval atom" stage or "singularity" and this will be the end of the Universe and this phenomenon is called a "Big-Crunch". "Big-Crunch" is one possible scenario for the ultimate fate of the Universe in which the metric expansion of space eventually reverse and the Universe collapses, ultimately ending as a "black hole singularity".

Some Scientists propose another theory that the Universe could collapse to the state where it has begun and then initiate another Big-Bang. So in this way the Universe would last forever, but would pass through phases of expansion on Big-Bang and constriction i.e., Big-Bang → Big-crunch → Big-Bang → Therefore some scientists hold the view that the Universe will continue Big-Bang and Big-Crunch[9]. Here the new Heaven and New Earth idea given in the Bible may be referred. New Heaven and New Earth. And I saw a new Heaven and a new Earth; for the first earth had passed away....." (Revelations 21:1-2)

Stephen Hawkings view on Big-Bang and Big-Crunch shown diagramatically below

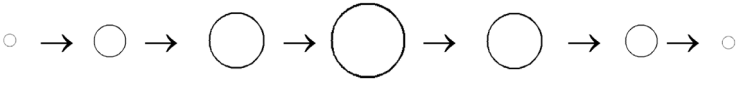
1. 'o' = 'Primeval atom' or 'singularity' of the Universe before Big-Bang

2. → ○ expansion of the universe

3. Expanded universe →

4. → ○ = universe begins to contract or reduce

5. = Big Crunch = The universe reduces to a condition like "Primeval atom" or "singularity"



The number of billions of years taken for expansion of the Universe will be almost equal to that of a Big-Crunch.

Many Scientists do join with the view of the Stephen Hawking. Stephen Hawking questions the necessity of a CREATOR. His words are quoted below.

"The idea that space and Time may form a closed surface without boundary also has profound implications for the role of God in the affairs of Universe, with the success of scientific theories in describing events, most people have come to believe that God allows the Universe to evolve according to a set of Laws and does not intervene in the Universe to break these laws. However the laws do not tell us what the Universe should have looked like when it started it would still upto God to wind up the clockwise and choose how to start off. So long as the Universe had a beginning, we could suppose it had a Creator. But the Universe is really completely self contained, having no boundaries or edge, it would have neither beginning nor end; it would simply be. What a place, then for a Creator?"[10].

Stephen Hawking does not say anything about what will be there after a Big-Crunch.

3.3 WHAT BIBLE SAYS AFTER THE END OF UNIVERSE?

a) Bible says that "my words will not pass away" gives light to the emergence of another world or Universe which is not similar to this physical world. Let us see what Bible says about this period (the Fifth Period).

"And the city (new Heaven) has no need of sun or moon to shine upon it, for the glory of God is its light, and its lamp is the Lamp (Jesus Christ)" (Revelations 21:23).

Even before revelations to John, Isaiah has prophesised the same thing centuries before, John. Gods' spirit revealed to him about the fifth Period, even centuries earlier to John's vision; about the fifth period - a new Heaven and a new Earth.

"The Sun shall no longer be your light by day, nor for brightness shall the moon give light to you by night; but Lord will be your ever lasting light (=infinite period) and your God will be your glory.

"Your SUN shall no more go down (shows fifth period - infinitely continues) nor your moon withdraw itself; for the Lord will be your everlasting light" (Isaiah 60:19-20).

b) "Then I saw a new Heaven and a new Earth, for the first Heaven

and the first Earth had passed away .....” (Revelations 21:1-2). “I am the Alpha and the Omega, the beginning and the end” (Revelations 21:6). “And there will be no more light; they need no light of lamp or sun, for the Lord God will be their light, and they will reign forever and ever” (Revelations 22:5). Here the usage of “for ever and ever” denotes the infinite period of time of the fifth period. “Thy years have no end” (Psalms 102:27). “Thy years will never end” (Hebrew 1:12).

Some scientists believe that the Big-Bang and “Big-Crunch” will continue and this will lead to infinity. Each time space-time will end with Big-Crunch and will re-start with another “Big-Bang”[11]. Bible says after the end of Universe (may be after a Big-Crunch) the Lord shall reign forever. Bible is not in support of another Big-Bang and Big-Crunch (Revelations 22:5).

Big - Crunch references from different websites given below: [12,13,14,15,16,]

2nd Peter 3:13 also says a new heavens and a new Earth “….wait for new Heavens and a new earth, where righteousness is at home”. There are statements in Holy Bible showing that this earth will remain for ever. “….the earth remains for ever” (Ecclesiastes 1:4). “You set the earth on its foundations, so that it shall never be shaken” (Psalms 104:5, Psalms 78:69). “For as the new Heavens and new Earth which I will make” (Isaiah 66:22). God promises that “For I am about to create new Heavens and New Earth, the former things shall not be remembered” (Isaiah 65:17).

Renowned astronomer and Nobel Prize Laureate Brian P. Schmidt predicted a ‘dark’ future for the Universe which he says will eventually fade away Human beings will look into an empty Universe in 100 billion years as all galaxies will fade away except the Milky Way we live in .He does not mention anything of a ‘Big-Crunch’[17].

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CHAPTER - 4

MATTER

4.1 Introduction

"Most of the scientists believe that the Universe began in a Big-Bang about 13.75 billion years ago. At that time the entire universe was inside a bubble that was thousands of time smaller than a pinhead. Then it suddenly expanded. The Universe that we know was born in a fraction of a second; the Universe grew from smaller than a single atom, to bigger than a galaxy! And it kept on growing at a fantastic rate"[1].

Matter was formed immediately after the Big-Bang "According to the Big-Bang Theory, after its initial expansion, from a singularity, the Universe would have cooled sufficiently to allow energy to be converted into various subatomic particles, including protons, Neutrons, and Electrons. While Protons and Neutrons would have combined to form the first atomic nucleus only a few minutes after Big-Bang. It would then have taken thousands of years for electrons to combine with them and create electrically neutral atoms. The first element produced would then be hydrogen, along with traces of helium. Giant clouds of these primordial elements would then coalesce through gravity to form stars and galaxies and the heavier elements would be synthesised either with in stars or during Super-Novae ..... The Big-Bang Theory cannot provide any explanation for an initial condition"[2].

Scientists may differ in calculating the duration in which the first atom formed after a Big-Bang. Whatever may be, scientists agree that, there was no matter, before the Big-Bang. When atoms and matter were formed, they had a mass in them. "Mass is quite simply, a measure of how much stuff an object, a particle, a molecule or a box contains. If not for mass, all of the fundamental particles that make up atoms would whiz around at a speed of light, and the universe as we know it could not have clumped up into matter .... when the particles interact with the field of bosons, and the Higgs-boson in it, mass is formed"[3].

Most sub-atomic particles exists for only fractions a less than a billionth-of a second and some particles combine to form more stable composite particles. Fermions are sub-atomic particles that make known matter and antimatter. Leptons are elementary particles that do not participate in holding the nucleus together. Quarks are elementary particles that do participate in holding the nuclear together. There is antimatter which consists of counter particles of quarks and leptons Hadrons are composite particles like proton

and neutron. Bosons are particles that carry four types of forces. A neutrino is a sub-atomic particle that is believed to be massless, or to have very small mass a neutrino is very similar to electron except that it does not carry an electrical charge[4].

4.2 The structure of sub-atomic particles

At present the following sub-atomic particles are described. The nucleus of the atom contains Protons, and Neutrons. Outside the nucleus, the electrons are revolving. The sub-atomic particles are divided into two sections; they are elementary particles which include quarks, leptons, Bosons and hypothetical particles. The composite particles include Hadrons (Baryons + Mesons) [5,6,7].

4.3 Higgs-Boson-The building blocks of Universe

"Physicists said that they had found a sub-atomic particle that may be the elusive Higgs-Boson popularly known as the God-particle, which is believed to confer mass in matter. These are the building blocks of matter and particles that convey fundamental forces. Higgs-Boson is the missing piece of the 'Standard Model', the theory that describes the basic building blocks of the Universe.

Nobel winning physicist Leon-Lederman wanted to title his 1993 book "The Goddamn particle". But his editor changed it to "God Particle"[8]. The Higgs-Boson Particle was named after the Indian scientist 'Bos'. "A Higgs-Boson like particle has been discovered at the large Hadron Collider 300 feet underground near Geneva. This Collider designed to accelerate protons to very high speeds and then smash them together to create tiny fire-balls, recreating conditions that prevailed when the universe was less than trillionth of a second old. With the discovery of Higgs-Boson-like sub-atomic particles, scientists believe that they can gain more knowledge about mysterious "dark matter", "dark-energy" and "anti matter".

The large Hadron Collider that found the God-particle might be replaced. Researchers from European organisation for Nuclear Research (CERN) are proposing a new underground accelerator with a circumference of 80 kilometers-three times the size of the current one under Geneva"[9].

In Theni, a place in Tamil Nadu, Scientists are planning to have a similar collider, to study the 'Nutrinos' and scientists hope to get more details about the origin of matter.

Most matter on earth is made up of 'MUON', 'MUON-NUTRINO', 'TAU' & 'TAU-NUTRINO'. They are formed in cosmic-rays. These particles come to existence after 'Big-Bang'[10].

4.4 Anti-Matter

Scientists at CERN, Geneva said on 5th June 2011, that they had trapped and stored anti hydrogen atoms for record, 16 minutes. Scientists the world over hailed it as a stunning technical feat that promises deeper insights into the mysteries of antimatter. The scientists reported trapping some 300 antimatter atoms. They used CERN's high-energy-accelerator to create the anti hydrogen atoms, and then chilled to near-zero temperatures. The aim is to use laser and microwave spectroscopy to compare the immobilised particles with their hydrogen counter part.

Particles and antiparticles annihilate each other in a small flash of energy when they collide. At the moment of Big-Bang nearly 14 billion years ago, matter and antimatter are thought to have existed in equal quantities. If that balance had persisted, the observable Universe we inhabit would never have come into being. For, unknown reasons, nature seem to have a preference for "matter" and "antimatter" is rare today. This asymmetry remains one of the greatest riddles in Particle Physics[11].

In this situation we can understand that, God decided which matter (matter or antimatter) will dominate. It is God's plan to create man, and to create earth for man's habitation. God created this universe with a purpose.

4.5 Dark Matter and Dark Energy

The visible matter is only 4.6% in the universe. The rest is unknown to scientists. This invisible or unknown matter contains Dark matter. Dark Energy is responsible in controlling the expansion of universe. The details of Dark Matter, Dark Energy & Anti matter will throw light on the origin of universe [12]. The universe is full of matter and the attractive force of gravity pulls all matter together. Approximately 70 % is Dark Energy, 25% Dark Matter and approximately 5% normal matter. Dark matter is not antimatter.

DARK MATTER : "Dark matter cannot be seen directly or isolated in a lab. Yet it makes up the bulk of the matter in the universe. It is the invisible scaffolding for the formation of stars and galaxies"[13].

"Dark Matter is a type of matter hypothesised to account for large part of total mass in the universe. Dark Matter cannot be seen directly with telescope evidently, it neither emits nor absorbs light or other electromagnetic radiation at any significant level; instead its existence and properties are inferred from its gravitational effects on visible matter, radiation and large scale structure of Universe. Dark matter is estimated to constitute 84% of matter in the Universe and 23% of the mass energy"[14].

Dark matter may be made up of another more exotic particles like axions or weakly interacting massive particles (WIMPS)[15].

"Dark Matter exerts gravitational pull on all the visible matter in the Universe. Dark Matter pulls matter inward and Dark Energy pushes outward. Dark Matter consists of a type of sub-atomic particles that has not yet been detected. Dark Matter and Dark-Energy were formed in Big-Bang and both remain mysterious"[16].

4.6 Evidence from Bible about the Invisible Matter

The Higgs-Boson particles are named by mistake as the 'God-particles' by scientists. The name 'God-particle' claimed by the believers is not a misnomer, because God is energy and these 'God-particles' are believed to give all matter in the Universe and give size and shape to the Universe. So in one way the naming of 'God-particle' is not to be considered as a mistake.

"Dark-Matter" cannot be seen or Isolated in lab. It is the invisible scaffolding for the formation of stars and galaxies". The above statement reminds the invisible universe is also God created.

What Bible says about "Darkness" and "Invisible-world"? Evidences from Bible are given below.

1. "For in him all things were created, in heaven and earth, visible and invisible" (Colossians 1:16) of the total matter of the universe 'Dark - Matter' is about 84%. Similarly Dark-Energy is 74%. Albert Einstein was the first scientist to predict the empty space is not empty. Empty space is full of temporary particles that form and disappear continually.

2. Cosmic-Rays with even high-energies have been found. Among them was "Oh-My-God" particle or "Dark Matter as high-energy particles[17].

"Dark Matter pulls matter inward and Dark Energy pushes out ward". "..... He is before all things and in him all things hold together" (Colossians 1:17). "Galaxy would not have formed of without Dark-Matter. Everything that can be said about Dark-Matter is what God. Does not any one realise that Dark-Matter is God holding the universe together?"[18].

"I form light and create darkness" (Isaiah 45:7). Here the darkness may be interpreted as dark matter and Dark Energy. Again King David knew it earlier that darkness is not darkness to God. For God, Darkness and light, both visible and invisible are important. "..... even the darkness is not dark to you, the night is as bright as the day; for darkness is as light to you" (Psalms 139:12) God is the creator of "Darkness" also. "He made darkness

his covering around him, his canopy thick clouds dark with water" (Psalms 18:11). "He bowed the heavens, and come down, thick darkness was under his feet" (2 Samuel 22:10 and Psalms 18:9). "I clothe the heavens with blackness and I make sack cloth their covering (Isaiah 50:3). God is the authority of darkness. He knows what riches in darkness are.

"And I will give you the treasure of darkness and riches hidden in secret places....." (Isaiah 45:3) God may dwell in thick darkness, because he created darkness. "..... the Lord has said that he would dwell in thick darkness....." (1 Kings 8:12 and 2 Chronicles 6:1). The Lord as said that He would reside in tight darkness (II Chronicles 6:1). "He reveals hidden and deep things; he knows what is in the darkness and light dwells with him" (Daniel 2:22).

3. God is invisible, eternal and wise. "To the king of the ages, immortal, invisible, the only God, be honour and glory for ever and ever. Amen" (1 Timothy 1:17) "He is the image of the invisible God," (Colossians 1:15-17) "Ever since the creation of the world his invisible nature....." (Romans 1:20) .All the above verses show the invisible nature of God, who created invisible universe also.

4. When God created the visible universe, he created the "invisible" universe also. The first and second verses of the Bible say about the visible and invisible universe. The second verse of the Bible gives evidence that God created "Dark" or "Dark Matter" "In the beginning when God created the heavens and Earth ..... and darkness covered the face of the deep, while a wind from God swept over the face of the waters and separated light from darkness" (Genesis 1:1-4) When God created, he created visible universe with all visible matter and invisible universe with all "Dark Matter" and "Dark Energy".

5. We have to believe that the invisible Universe is also created by invisible God. Only faith can give a satisfactory explanation of invisible God. Nobody can question faith. Those who want may believe God created the invisible universe also. St. Paul made this idea clear in the following verse. "By faith we understand that the worlds were prepared by the word of God so that what is seen was made from things that are not visible". (Hebrew 11:3).God gave Ten Commandments from the middle of darkness. "when you heard the voice out of the darkness"(Deuteronomy5:23).

Many Christians in the world express their faith in the invisible and visible universe which was created by God.

"The Nicene Creed is the creed of profession of faith that is most widely used in Christian Liturgy. The creed is modified in the Constantinople council

(381 AD) The creed begins like this "We believe in God, the Father Almighty, Maker of Heaven and Earth and of all things, visible and invisible (The English Language Liturgical commission translation modified "Visible and Invisible" to "seen and unseen")[19].

4.7 Black Hole

A black hole is a place in space where gravity pulls so much that light cannot get out. The gravity is strong because matter has been squeezed into tiny space. This can happen when a star is dying, because no light can get out. People cannot see black holes. Space Telescopes with special tools can help finding black holes.

Scientists believed smallest black holes formed when the universe began[20].

Jude is mentioning of the black hole ,"Wild waves of the sea, casting up the foam of their own shame; wandering stars for whom the deepest darkness has been reserved for ever" (Jude 1:13). Wandering stars may be interpreted as comets or expansion of universe. The last part of the verse is mentioning the decay of a star forming a black hole. Jude may be warning people not to get into a point where there is no return. From black holes even light cannot come out[21].

In the gospel of Mathew and Mark, some predictions of black holes may be noted. Sun is a star, which will be darkened in the end. "But in these days, after that suffering, the sun will be darkened, and the moon will not give its light" (Mark 13:24-25 and Mathew 24:29). Another reference given in 'Acts also gives the same meaning. "And I will show portents in the heaven above ..... the Sun shall be turned into darkness" (Acts 2:19-20). "A day of darkness and gloomness, a day of clouds and thick darkness! ..... The sun and the noon are darkened and the stars with draw their shining..... The sun and the moon shall be darkened and the stars shall withdraw their shining" (Joel 2:2, 10, 31 and 3:15). In the book of Psalms it is given like this, ".... praise him all you shining stars" (Psalms 148:3); there is an inner meaning that there are stars which are not shining or all stars are not shining. Stars without shining represent the formation "black holes". Scientific explanation of a black hole is understood as follows. "Strange things happen to a star at the end of its life, if its mass is more than three times the mass of the sun. Then it collapses, becoming very compact. The collapse continues until the star becomes so dense that not even light escapes its gravity. Hence the object is dark and cannot be viewed directly. According to general relativity, bodies of matter curve space. If the body of matter was very dense (tons of

matter packed in to small space) it convulses space into infinitely deep chasm, called a black hole. There are 14 known black holes."[22].

God created the Universe, including all stars and galaxies. God says "I form light and create darkness" (Isaiah 45:7) God can decide when the light is to be taken back or dark and dark matter are to be created and withdrawn.

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CHAPTER - 5

IS GOD ENERGY?

Bible does not say directly that God is energy. Physical science says that energy is the ability of matter or radiation to work because it's mass, movement, electric change etc. are enabling the mass to work. Science also says that energy cannot be destroyed; it can be converted from one form to another.

There are different kinds of energy like kinetic energy and potential energy. Heat energy, Light energy, Electrical energy and movement are included in the kinetic energy group. Stored mechanical energy, Nuclear energy, Chemical energy, Gravitational energy are included in the potential energy group.

Big-Bang resulted in the formation of matter. All atoms contain energy. "Is God simply all the energy that exists in the whole universe, or God simply nature or the laws of the nature? Bible says "God is spirit" (John 4:25).Bible also says that the spirit, given by God is what gives man understanding "But there is a spirit in man; and inspiration of the Almighty gives them understanding" (Job 32:8).When a person dies, the spirit what brings life escapes from body. Then brain cannot register ECG tests. When the spirit leaves the body, the body dies because the electrical energy which powered the body is no longer present" "God is the SUM TOTAL OF UNIVERSAL ENERGY"[1]. King Solomon, the wisest king ever lived, says "..... the dust return to the earth as it was, and the spirit shall return unto God who gave it" (Ecclesiastes 12:7). The energy given to man returns to the Creator.

If God is responsible for the creation of matter, energy is also created by God. As the energy remains like Sound energy, Light energy, Heat energy, God also exists in the form of light energy, sound energy, heat energy, electrical energy (spirit), gravitational energy (love of God) etc.

Science says that energy is neither created nor destroyed. All the energy that existed was present at the beginning, still exists. God who is all energy, in the beginning took from his own energy to make everything that exists. Writers used their own limited vocabulary and knowledge of science to explain what they thought, they saw or were told". "God is the sum total of universal energy"[2]. King Solomon says "What has been is what will be and what has been done is what will be done. There is nothing new under the sun." (Ecclesiastes 1:9). "It is Gods' energia that is studied, it is the same energia in man which studies it"[3].

5.1 Holy Spirit is Energy

Most of the Christians believe that God is TRIUNE God; that means in the "God-Head", there is Father, Holy Spirit/Ghost and the Son; and all these are one. (Ref: Mathew 28:19, 2 Corinthians 13:13) "The Father and I are one" (John 10:30) "as we are one" (John 17:11&22) God is a spirit (John 4:24) Holy Spirit (advocate) and Jesus Christ are one (1 John 2:1) "For in him the whole fullness of deity (God head) dwells bodily (Colossians 2:9) There is only one God. We experience God; we experience the Holy Spirit (Ghost) when the energy of God is given to us. (Acts 2:4) In the beginning created Heaven and Earth and the spirit of God (a wind) swept over the face of the water (Genesis 1:1-2).

God is spirit and is invisible. God is energy and energy is invisible. In Christian Houses, the photo of God will not be seen; only the visible Christ, when he incarnated, and the photograph of the Son may be placed in Christian houses.

Everything that exists in the Universe is made up of energy. Every atom has electrons, subatomic particles containing electrical charge.

"Energy cannot be destroyed or created. Energy can be changed from one form to another. God, who is all energy in the beginning, took his own energy to create the Universe. God took from the pool of existing energy which was Him, and created every thing there is All creations are part of God"[3].

5.2 God is light energy

God is light. God dwells in dark and in light. "The land of gloom and chaos where light is like darkness" (Job 10:22). God create light and darkness.

Human sense organs can feel the presence of light. In order to make understand human being, God exists as light. There are many evidences in the Bible that God is light.

"...that God is light and in him there is no darkness at all" (1 John 1:5). Here darkness is to be interpreted as evil spirit. Jesus says, "I am the light of the world" (John 8:12,9:5). "...but the Lord will be your everlasting light" (Isaiah 60:19). "And he was transfigured before them, and his face shone like the sun" (Matthew 17:2).

Light is kinetic energy. Light is the life of human beings. The ecological science also teaches us that in the absence of light all organisms will die gradually. Light energy from the sun is trapped by green plants and

converted to chemical energy and stored in the plants. Therefore plants are called producers that mean producers of food. All other organisms, both primary and secondary consumers get energy for life from this food stored in plants. God is the spirit, which is given to human- beings to have physical and spiritual life. The electrical energy that is the spirit of God, escapes when an organism dies. Solomon says, "The dust (earthly matter) returns to earth (for recycling) as it was and the spirit (life or God's energy) returns to God who gave it" (Ecclesiastes 12:7). For physical life there must be continuous light (sun's energy). John 1:9 says the light of God was coming continuously for human life. "The true light, which enlightens everyone, was coming into the world".

"My Father is still working and I am working" (John 5:7). If this continuous light is stopped, there is no physical and spiritual life in this Universe.

5.3 God is Heat Energy

God remains as heat energy also. This is another kind of energy Heat energy or thermal energy is a type of kinetic energy. There are many evidences in the Bible that God remains as heat energy.

"….and his tongue is like a devouring fire" (Isaiah 30:27). When the three men Shadrach, Masach and Abednego fell down ,bound in the furnace of blazing fire, they walked in the midst of flames (Daniel 3:23-24). The Angel of God was with them in the furnace. The fire did not touch them. This was possible because God was fire (Daniel 3:50-51).The Angel of God appeared Moses in the midst of the flame of fire out of bush. "....the bush was blazing, yet it was not burning" (Exodus 3:2-7). "Mount Senai was wrapped in smoke, because the Lord descended upon it in fire...." (Exodus 19:18-19). God's fire consumes the burnt offering of Elijah's offering. " Then the fire of the Lord fell and consumed the burnt offering, the wood, the stones and the dust...."(1 Kings 18:38). God's fire consumes his adversaries. "Fire goes before him and consumes his adversaries on every side" (Psalm 97:3). "For he is like a refiner's fire" (Malachi 3:2). God led the Israelites in the desert by fire and cloud. "In the day time he led them with a cloud, and all right long with a fiery light" (Psalms 78:14; Exodus 13:21). God is fire; some times this fire leads, or consumes everything.

5.4 God is Sound Energy

In the beginning God created the Universe. When he commanded, everything was created. His sound created everything. "God said" is repeated in many verses in Genesis chapter one, while the creation of the

universe and earth was going on. Sound energy is a type of kinetic energy. It works. There are many verses in the Holy Bible that describes God's sound performs many different activities. The word of God was there in the beginning and the word was God. "In the beginning was the word, and the word was with God, and the word was God" He was in the beginning with God. All things come into being through him, and without him not one thing came into being" (John 1:1)

"..... and he sustains all things by his powerful word" (Hebrews 1:3) "So shall my word be that goes out from my mouth; it shall not return to me empty, but accomplish that which I purpose and succeed in the thing for which I sent it" (Isaiah 55:11) "Is not my word like fire, says the Lord, and like a hammer that breaks a rock in pieces?" (Jeremiah 23:29) "Indeed the word of God is living and active, sharper than any two-edged sword, piercing until it divides soul from spirit, joints from marrow' it is able to Judge the thoughts and intentions of the heart" (Hebrew 4:12) "His word runs swiftly..... He sends out his word and melts them" (Psalms 147:18). "..... his name is called the word of God" (Revelations 19:13). "Jesus mighty in word and deed" (Luke 24:19). "Thy word is truth" (John 17:17). "The voice of the lord is powerful .... is full of majesty .... breaks the cedars ..... clashes forth flames of fire .... shake the wilderness .... causes the oaks to whirl ...." (Psalms 39:3-9).

5.5 The Spirit of God is Electrical Energy

The spirit of God is equal to electrical energy, given in the working of human body. It gives life, when it is taken back, man dies. (Ecclesiastes 12:7) God gave his spirit to human beings for their life. "..... and breathed into his nostrils, the breath of life; and the man became a living being" (Gen 2:7). In some translation "the living being" is seen as "a living soul" (King James version). Electrical energy is a type of kinetic energy. Human nerves control the different parts of the body by electro- chemical stimuli. Heart also produces electrical stimuli. Brain waves are also electrical in nature and persist as electrical stimuli.

The electrical energy is from God only. King David says "the Lord is strength of my life" (Psalms 27:1). "I came that they may have life, and have it abundantly" (John 10:10).

5.6 God is Gravitational Energy

Gravitational energy is a type of potential energy. Gravity is not a force. Stephen Hawking in his recent book "The Grand Design" says that God did not create the Universe; gravity did[5].

The creationists believe that God is gravity. God is also very similar to gravity as it is the omnipotent, omniscient etc. Therefore God is gravity[6].

The gravitational force by which God attracts people is his incessant love. God is love. (1 John 4:10) Love attracts. Gods love makes us to be closer to him. The closer we are with God; the force of love of God is more. Love and affection of God is his gravity or gravitational force. "The amount of gravity that something possesses is proportional to its mass and distance between it and another object."[7].

If we are closer to God, the gravitational force of love is stronger and powerful. Bible says God is love. Our prayers make us to be closer to God. Gods love keep all human beings remain together and with God.

"In him we live and more and have our being (Acts 17:28). The above verse also says that the electrical energy of God is present in us, in the form of love.

"God is love" (1 John 4:10). "Lord preserve them that love him" (Psalms 145:20). "You love one another" (John 15:12,17). Parents-Child affection and Husband-wife love are also gravitation.

5.7 Transformation of Energy

Energy can be converted from one form to another. When energy is converted from one form to another, some energy is dissipated to atmosphere. Sound energy can be converted to light energy and vice-versa. Heat energy can be converted to another form of energy. The physical laws are applied when the energy is converted.

God exists in different forms of energy, but when changed from one form to another form, there is no loss of energy. God is the energy of the Universe. God's words are sound energy. Chapter 119 of Psalms describes the glories of God's Law (H. Bible NRSV edition).

"Your word is a lamp to my feet and a light to my path" (Psalms 119:105). Here the "word" is sound energy; at the same time exists as light energy (lamp) God can exist as sound energy and light energy in the same time. "Is not my word like fire, says the Lord and like a hammer which breaks the rock in pieces" (Jeremiah 23:29). Here the word (sound energy) is like a fire (Heat energy) and can break the rock (like kinetic energy). The heat energy and light energy leads & Israelites during their journey in their exodus (Psalms 78:14, Exodus 13:21).

The creation of the universe is by his mighty words. (Gen 1:1, 1:6, 9, 11,

14, 20, 24, 26 and 29). The word became light (John 1:1-10). God's Words are powerful and works as kinetic energy can be noted in Psalms 147:18, Isaiah 55:11, Hebrew 4:12, Psalms 39:3-9.

In Hindu philosophy also, "Ohm" is sound energy of God, which creates the universe, may be referred here with the "word" of Lord. (Gen 1:1-5). Jesus face was transfigured and his face was shining like a sun. (Mathew 17:2). Jesus was "word" and became flesh and gave electrical energy to all human beings. (John 1:14).

5.8 God and Energy both are Invisible

We have sense organs. Our eyes respond to light stimuli, but cannot see energy. God is also not visible. When God acts in the form of kinetic energy we can experience God. When God remains as sound energy we can experience his sound with our ears or inner ears. Similarly "light" (God is light) 'Heat' (God is fire) 'Gravitational force' (God is love). We experience God. We can experience God only when he opens our external and spiritual sense organs. "His voice you never heard, his form you have never seen" (John 5:37). "He is the image of invisible God" (Colossians 1:15). "Whom no man has ever seen or can see" (1 Timothy 6:16). "Ever since the creation the world his invisible nature" (Romans 1:20). "You cannot see my face, for man shall not see me and live ....." (Exodus 33:20). All the above verses are about invisible nature of God. God is energy; nobody can see energy. As nobody has seen God, Christian houses lack photographs of "Father." Human beings have seen God in the form of Jesus Christ. Jesus said those who have seen me and have seen my "Father" also. (John 14:9).

There are many references in the Holy Bible that many have seen God face to face and talked with God. (Gen 18:1-4, 32:24-30, Exodus 24:10, 33:11, Deuteronomy 5:23-30) They might have seen the glory of God or God's angels. They might not have seen God, the heavenly Father, when he is invisible (John 1:18, 14:9, 6:46, 8:58, 17:5).

Physical laws state that "energy is neither created nor destroyed". Here we can modify this statement to "energy (God) is neither created nor destroyed". After the Big-Bang, matter was formed and whenever additional matter was formed, energy was also formed. This energy was available only from existing energy that is God. We can conclude that God is energy. But we cannot conclude God is only energy; God is something beyond our knowledge. Only energy can be compared with God; God cannot be compared with energy. In the Universe the visible matter is only 5%. The Dark Energy is 70% and is invisible. The remaining 25% is Dark matter. Gods

creation consists of TIME, SPACE, and MATTER; SPACE includes Length, Width and Height; Time includes past and future; MATTER, includes energy, motion, and phenomenon.

God can exist outside TIME and SPACE. There fore it is difficult to see him with our eyes. God exists beyond, height, width, depth and time (four dimensions). When God steps down to our dimension, we can experience God. Jesus is the incarnation of God and came to our dimension (two)[8].

5.9 God beyond Time and Space

How can we say that God is beyond space & time? Some explanations are here. "The theory of expansion of universe is also meaningless, because expansion of any material requires the existence of space, different from material. Unless you accept the unimaginable region beyond the boundary of Universe, you cannot speak of the end of imaginable boundary of the Universe. All this discussion will clearly establish the existence of unimaginable region or God beyond Universe"[9].

Scientists believe that dark matter/ dark energy creates time and time creates dark matter and dark energy. So the Universe is expanding.

There are some other views regarding "God beyond time and space". Augustian's (a theologian) solution of God's relation to time that God is timeless. Christian theology usually declares that they are mysterious beyond our human understanding; God is not timeless. But God's time is not our created time. The statement of 2nd Peter 3:8 makes this clear. "..... that one day with Lord is as thousand years and a thousand year as one day". God has time, but His time is not our created time. God's uncreated time is absolute time; it has no beginning or end. But it is not our created time. Just as God created space (the heaven and earth) He created time also. Newton's mistake was that he identified relative creative time with God's absolute time[10].

The wisdom of King Solomon was a gift from God. Solomon says that God cannot contain Himself even in the highest heaven. Solomon's statement indicates that God may exist even outside space. "But will God indeed dwell on the earth? Even heaven and the highest heaven cannot contain you, much less this house that I have built?" (1 Kings 8:27), (II Chronicle 2:6), (II Chronicle 6:18).

God's presence is beyond and above heavens. (Ps. 148:4,13), (Ps. 57:5,11), (Ps 8:1), (Ps 108:4,5), (Ps. 113:4, 6), (II Cori. 12:2-3), (Ephes. 4:10).

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CHAPTER - 6

CONCLUSION

6.1 Higgs–Boson particles are not the final answer

Higgs – Field is present every where in the Universe. Higgs–Boson like particles are present in this field. Higgs mechanism says, "The sub- atomic particles when travel through this Higgs –field, get mass, that means Higgs-Boson particles confer mass on matter."

If any subatomic particle enters the Higgs- Field, immediately there will be an accumulation of subatomic particles around the new particle and this particle will get a mass. Even if the subatomic particles which enter the Higgs –Field are not that important or prominent, they will get a less- mass. Similarly different subatomic particles get different mass, when they enter the Higgs- field. Even other wise the Higgs- Boson particles assemble themselves in the Higgs. Field and they get a mass.

Why should they assemble themselves? Who directed them? Why should sub- atomic particles enter into Higgs-Field? Wherefrom Higgs-Field originated? No, satisfactory answer is available. Scientists may explain that, these things occurred immediately after Big-Bang.

Scientists believe that, immediately after the Big-Bang, different kinds of subatomic particles were formed. All the matter in this Universe was formed by the interactions of different thirty six kinds of Quarks, Leptons, Gluons and Bosons. The basic subatomic particles are identified as twelve in number of which eleven were already recorded. The 12th one the Higgs-Boson, was not recorded till the large Hadron Collider experiment, on 4th July 2012. Scientists claim that they could record the presence of the Higgs-Boson subatomic particle. This may lead to reveal more secrets of the origin of Universe[1].

The Boson particle was named after the Indian Scientist, Satyendra Nath Bos, who predicted the presence of these (Higgs-Boson) particles. Dr. Bos proposed his ideas and later Einstein modified this theory into "Bos-Einstein Statistics".

Proton is present in the nucleus of the atom. Proton is formed by the union of three quarks. These quarks are connected by three gluon particles. Scientists designed experiments, in which proton particles are allowed to collide, when they are moving in the speed of light. As a result, the quarks of the proton will get separated and the gluons also will be disconnected.

At this time, the Higgs- Boson particles would appear for a short time, i.e., one billionth of a second. This experiment was conducted in the Large Hadron Collider.

There are instruments to record the presence of Higgs -Boson formed by the result of this collision. The scientists claim that, they had succeeded in the recording of the Higgs-Boson particle.

Even though many secrets of the origin of the Universe are revealed still, many questions remain without satisfactory answers. How matter gets mass? This is a puzzle still unanswered. "Standard Model" theory does not explain the "Unification of the Forces". Which force is necessary to stop the universe from expansion? The further reduction leading to a Big-Crunch is not explained that, by which force the Big-Crunch is possible how "gravitational force" and "radiation force" move in this Universe? In which medium these forces travel? These questions are not explained satisfactorily by the "Standard Model". How and why all the forces are moving in the form of waves or quantized? How elements with low mass unite and how high mass elements depart? The inertia in some elements is influenced by magnetic force. How and why?

Even the presence of Higgs-Boson recorded, cannot explain the above unexplained views. How space and matter are connected? An ordinary man's intelligence cannot understand this properly. How gravity can operate both at the particle level and at the level of planets, stars, and solar systems?

More and more facts will be revealed by scientists in due course of time. Still there will be unrevealed things. We have to believe that, unrevealed secrets belong to God. (Deuteronomy 29:29).

6.2 There is only one answer, that answer is God

The Bible is not a reference book to find out scientific truths. The Bible is written by many authors. The writers were not scientists. Many books in the Holy Bible are written to show how God guided his believers. The incarnation of Jesus Christ is prophesied in many books of the Old Testament. It is meaningless, to find out evidences of scientific truths from the Bible. Anyhow, the recent developments of science, regarding the origin of the Universe, the formation of matter, dark matter, antimatter, dark energy, asymmetry etc., are evaluated in previous chapters with the evidence of the Bible verses. I hope still many verses in the Holy Bible are unnoticed and the meaning of the verses are not interpreted. From the very beginning of the Big-Bang, the matter – antimatter symmetry was changed to asymmetry, and matter dominated. Science cannot make evidences of this change to

asymmetry. Obviously it is clear that some Super Intelligence has operated and controlled the incidents from the very beginning. God has prepared a background to create organisms. God controlled the gradual changes that occurred till the evolution of mankind. Evolution is still continuing. The scientific truths known are not sufficient to know the origin of the Universe, when we compare to the unknown secrets of the Universe. Here we have to believe that God did not reveal all the secrets to human intelligence. (Deu.29:29)

The Holy Spirit will reveal to scientists more and more truths of science in due course. This does not mean that man can know everything and man will be equal to God. God will reveal himself to those only who search for him and not to all human beings. We have to wait till then.

When God created Universe, He did not create immediately a place for human dwellings. The Earth was formed in a later stage. Before the creation of man, God made background for man in the earth. "God formed earth to be inhabited" (Isaiah 45:18).The creation of man was the last in the scene. If the present man will undergo more changes in course of evolution, another super intelligent man will be evolved. When God stop further evolution of the man? Nobody knows. God does whatever he wants. Nobody can question Him. "God has decided to fulfil his intention" (Isaiah 46:10). The creature or the product cannot question the Creator. (Romans 9:20-21, Isaiah 45:9-10, Jerem 18:1-9)

An unintelligent Universe cannot control and make laws of nature. There must be a "Master Mind".

Time and seasons are given to man for his convenience in the world. The time may be different in galaxies or totally in the universe. We do not know exactly what is there in the dark matter. Wherefrom Dark Energy originate? Unseen things are more than the visible world. Why energy is present in the atoms? Who gave it? How gravity originated? A Universe without gravity and energy is unimaginable. Without any space, how Big–Bang took place? When the expansion of the Universe took place, to which space expansion proceeded? What is space? Is there any effect of space and time in the black hole? Is there more intelligent creatures in any part of the Universe? The Nature is well planned and well designed. Can a non-intelligent nature control the self nature?

If there is no reproduction the present living organisms would not have been resulted? Who planned or foreseen that the organisms shall reproduce and continue to survive?

Can a non-living 'nature' design an intelligent brain? If there is no reduction division in the development of reproductive cells, the large number of chromosomes cannot get space inside the dividing cell. Who planned the mathematical calculation of reduction division?

If all organisms live, there will not be sufficient place and nutrients for the coming generation? Who planned the death of organisms? When organisms die, there is a decay process. If there is no decay or decomposition, what will be the condition of the nature? Who planned it? Can an inanimate or unintelligent nature foresee the future of all living organisms, and if nobody survives what will be the future of the world? Will it happen? Bible teaches morality. If there is no God, what is the necessity of morality in this world?

The Universe is expanding? Why? If there is no expansion what will be the future of Universe? Can we imagine a world without space and time? What was there before a Big- Bang? What will be there after Big-Crunch? Are there other Universes other than the present Universe?

As far as the human brain has got the capacity to think, the unanswered questions also will be more in the human mind.

If you believe in a 'God' who sustains controls everything, leave everything to God. One can be a believer or unbeliever in God. There is freedom.

If you believe in God, or have faith in God obey Him. "Now faith is the assurance of things hoped for, the conviction of things not seen. Indeed by faith our ancestors received approval. By faith we understand that the worlds were prepared by the word of God, so that what is seen, was made from things that are not visible" (Hebrew 11:1-3).

"The secret things belong to the Lord, our God, but the revealed things belong to us and to our children for ever, to observe all the words of this law" (Deuteronomy 29:29)

The distance and difference from non-believers to believers is negligible. The following two sentences have same alphabets. The only difference how spaces between the alphabets are arranged. The two sentences are 1. "GOD IS NO WHERE" 2. "GOD IS NOW HERE"

When a book is published repeatedly for many times, each time the editions may be modified, by the author. The nature is the book written by God; God modifies the nature every now and then. The organisms which live today are the latest editions of the Author. Here, one thing we have to

notice that, the non living ‘book” or nature is not modified without an Author. There must be an Author, and that is the “Master Mind” or “Super Intelligence” or “God”. All scientific inventions of the present time are the result of modifications by the intelligent scientists. The “inventions” are not modified by themselves. The modern instruments and inventions are modified from time to time. There must be a “Modifier” or “Designer”. The Master Designer of this Universe is God., only GOD.

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